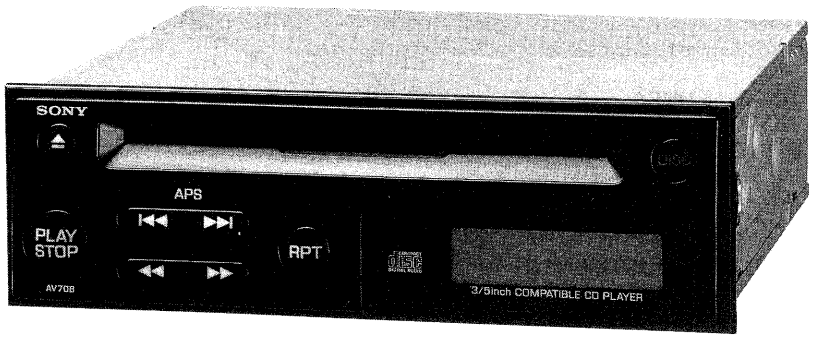
CDX-5N11W

SERVICE MANUAL

US Model



Model Name Using Similar Mechanism	NEW
CD Drive Mechanism Type	MG-200N-33

SPECIFICATIONS

Laser Diode Properties
Material: GaAlAs
Wavelength: 780 nm
Emission duration: Continuous
Laser output power: Less than 44.6 μW*
Number of laser beam: 3-spot method
Oversampling: 4 fs

*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

Frequency response
4 – 20,000 Hz
±3.0 dB
Harmonic distortion
0.01% (1 kHz)
Dynamic range
85 dB (1 kHz)
Wow and flutter
Below measurable limit
Signal-to-noise ratio
85 dB (1 kHz)
Power requirements
13.2 V (10.8 – 15.6 V) car battery, Negative ground
Current drain Less than 3 A
Dimensions Approx. 180 × 50 × 160 mm ($7^1/_8 \times 2 \times 6^3/_8$ in.) (w/h/d)
Weight Approx. 1.3 kg (2 lb 14 oz)

Design and specifications subject to change without notice.

GENUINE NISSAN PARTS CAR AUDIO
PART No. B8182-C9970

COMPACT DISC PLAYER

SONY®

使用時は添付資料も参照のこと
Refer to the additional documents

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SERVICING NOTE

Flexible Circuit Board Repairing

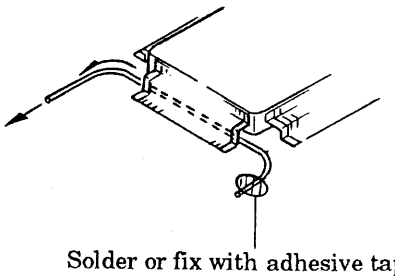
- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

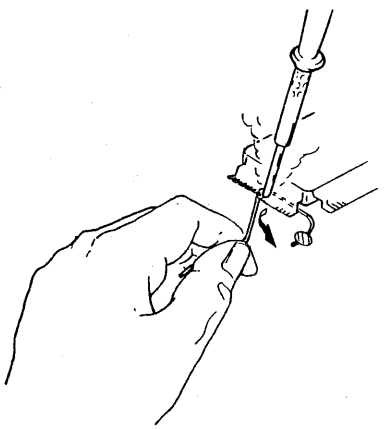
Removing the Flat Package IC

1. Prepare an enameled wire (0.3mm diameter) and apply it to the back side of the IC pins as illustrated below.



Solder or fix with adhesive tape.

2. Heat the IC pin with the soldering iron and draw the enameled wire so that the IC pin is removed from the pattern as illustrated.

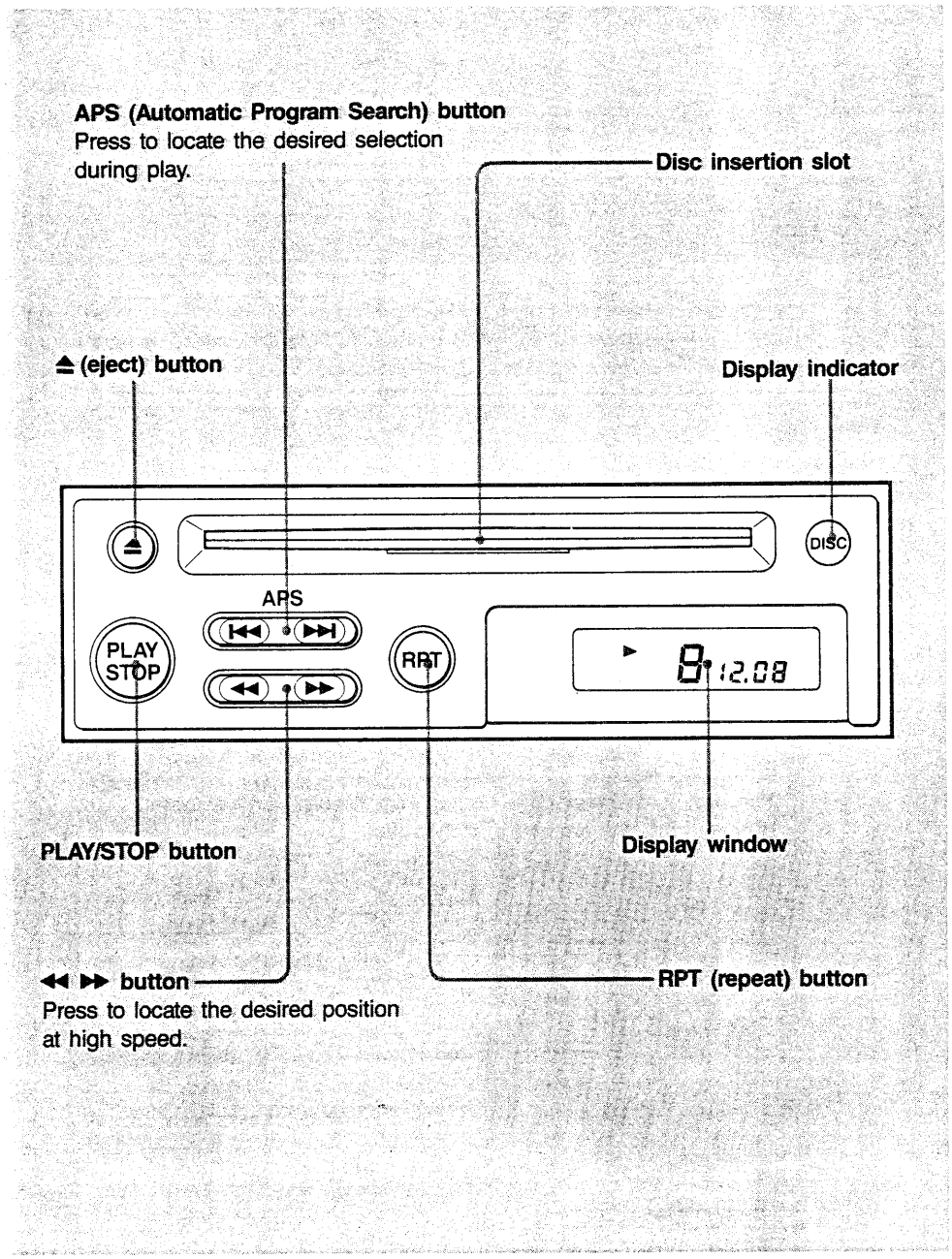


SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

Location and Function of Controls



SECTION 2
SERVICING NOTES

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 mm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μW*

  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

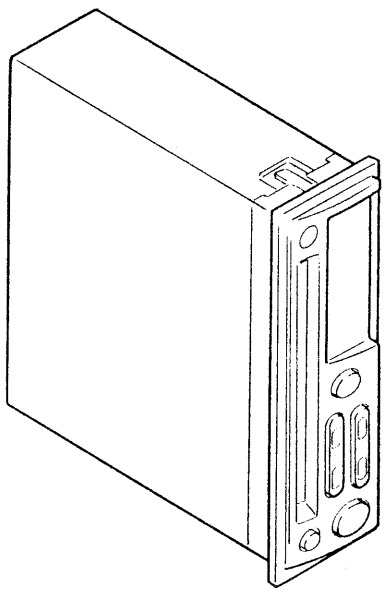
During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

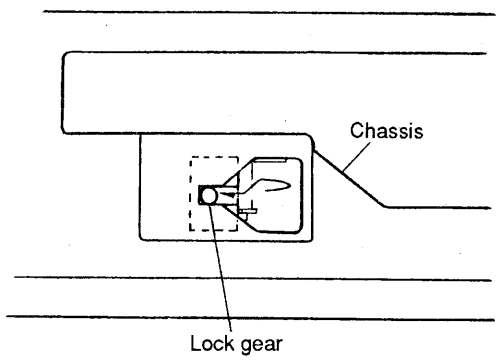
The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

Cautions for Repair

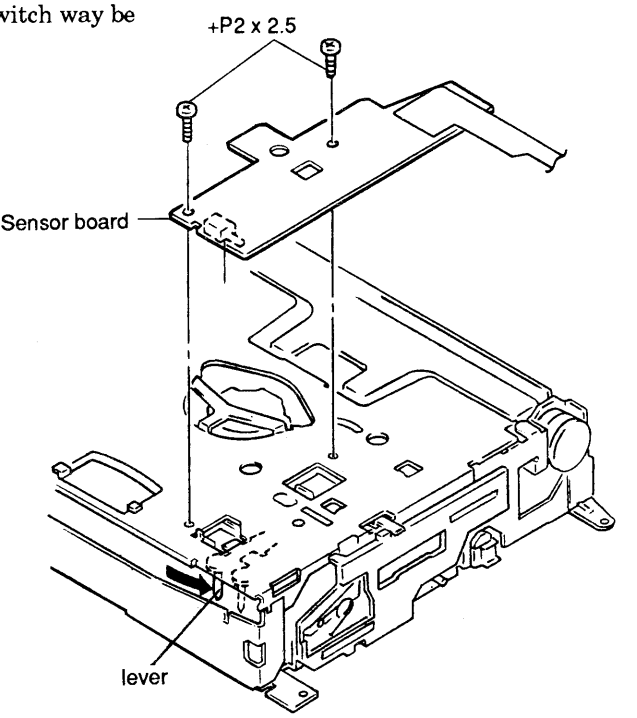
- Never reverse the set when inserting or removing the disc.
  When checking the boards, put the set as illustrated below.



- In play mode, the disc section is connected to the chassis section only through the damper so that it is not affected by vibration.
  The lock gear is fixed in the notch of the chassis only in STOP mode.
  If the lock gear is not firmly fixed in the notch, the disc cannot be removed or inserted. In such a case, rotate the gear near the sled motor by your fingers to fix the lock gear in the notch.



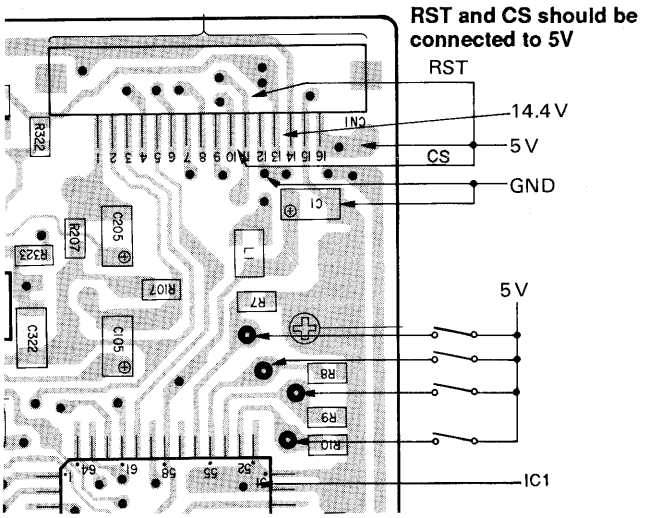
Note for reassembling
When reassembling SENSOR BOARD place the board with keeping the lever pressed in the direction of arrow. If attach it forcibly, the switch way be broken.



Test mode is entered in two ways: test mode by the main microcomputer (IC501) and test mode by the mechanical control microcomputer (IC1)

A. Test mode by the mechanical control microcomputer

Connection



If a disc is in the system during the self diagnosis (automatic or manual), the disc is ejected.

A-1 Automatic self-diagnosis test

1. Connect pin 56 of IC1 to +5V, turn the power switch on, and press the reset key.
2. Insert the disc: the processes below are executed. (Error messages are displayed only in Test mode by the main microcomputer.)

Loading start

The loading time is monitored. If 16 seconds elapse, error message E-1 is displayed.

Play, starting with the first music

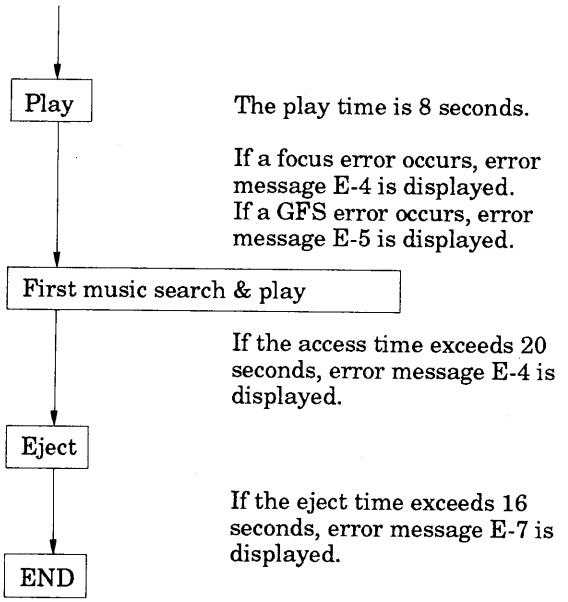
The sled motor is moved toward the internal circumference. If the limit switch is not turned on in 15 seconds, error message E-2 is displayed. If no focus is obtained, the disc is ejected.

Last music search and play

If the access time exceeds 20 seconds, error message E-3 is displayed.

Stop

The stop time is 5 seconds.


Play
The play time is 8 seconds.
If a focus error occurs, error message E-4 is displayed.
If a GFS error occurs, error message E-5 is displayed.
First music search & play
If the access time exceeds 20 seconds, error message E-4 is displayed.
Eject
If the eject time exceeds 16 seconds, error message E-7 is displayed.
END

3. If pin(54) is connected to +5V in the operation mode, the operation mode continues to be valid until the voltage has become 0V.
   If pin(53) is connected to +5V during operation mode, ejecting is executed and loading is executed again after two seconds.

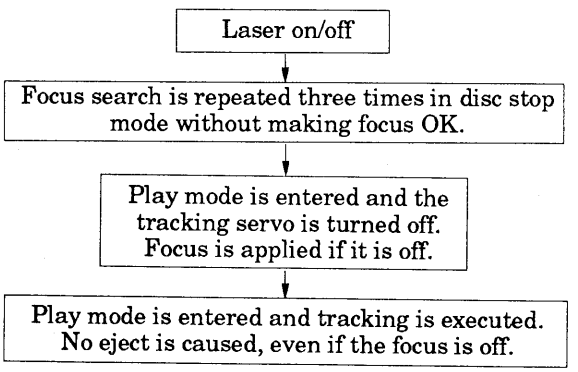
A-2 Manual self-diagnosis test

The processes executed are identical to those of the automatic self-diagnosis test.

1. Connect pin(53) to +5V, turn the power switch on and press the reset key.
2. Insert a disc.
   Instantaneously set pin(54) to "H" to proceed to the next step.
   The music number is advanced if pin(55) is instantaneously set to "H", and the music number is decremented if pin(56) is instantaneously set to "H".

A-3 Pick-up test

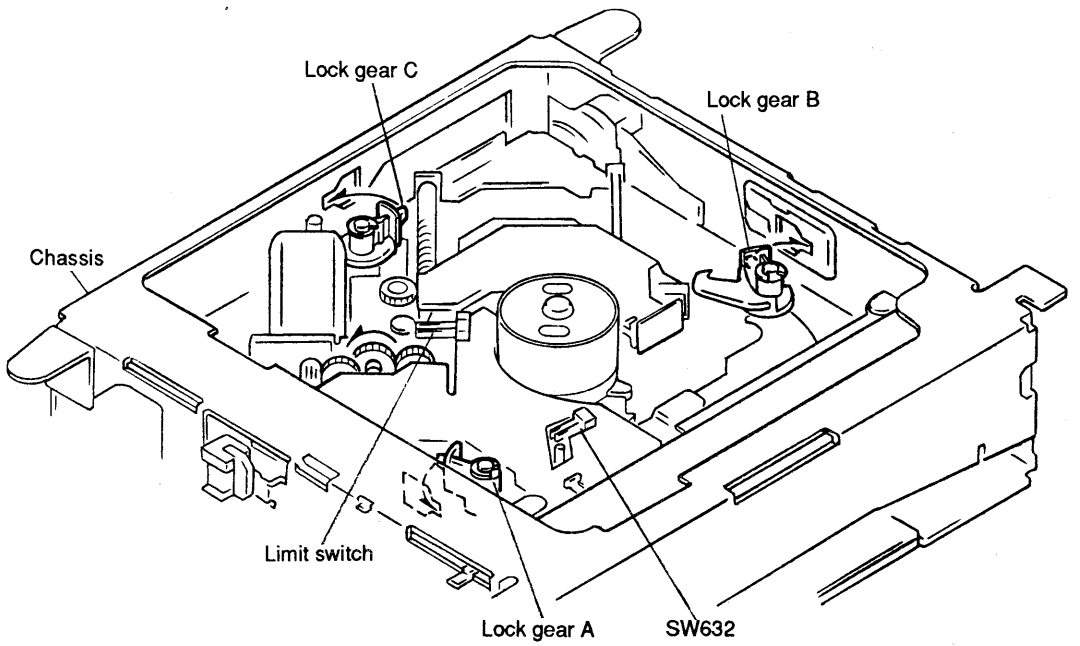
1. Connect pins(53) and(56) to +5V, turn the power switch on, and press the reset key. (If the power is turned on with SW621 turned on, the operations can be obtained without any disc.)
2. Insert a disc and check whether play mode is entered when loading is completed.
3. If "H" is applied instantaneously to pin(54), the next step is started.


Laser on/off
Focus search is repeated three times in disc stop mode without making focus OK.
Play mode is entered and the tracking servo is turned off. Focus is applied if it is off.
Play mode is entered and tracking is executed. No eject is caused, even if the focus is off.

4. Each process in Step 3 can be turned on or off by setting pin 55 instantaneously to "H".

SECTION 3
CIRCUIT DESCRIPTION

When the optical section moved toward the inner circumference and the limit switch is turned on, the sled motor starts to rotate the gear in the direction of the arrow and the MD section is fixed to the chassis.
When the lock gear is fixed to the chassis, SW632 is turned on. When SW632 is turned on, the loading motor is rotated to eject the disc.



IC1 PINS (CXP5068H-008Q)

Pin No.	Description
1.	Serial data output to IC502 and IC503
2.	Clock output for the serial data transfer to IC502 and IC503
3.	Latch output to IC502 and IC503
4.	Loading start switch input; 8cm disc eject complete switch input. (Turns on at "H".) (Switch C)
5.	Disc chucking complete switch input (Switch F). (Turns on at "L".)
6.	Chucking start switch while loading is in progress (plunger on timing) (Turns on at "H").
7.	Input signal for 8cm or 12cm disc detection. Signal input is upon completion of the 12cm disc eject or loading start sensor from that status. (The signal turns on at "H".) (Switch D)
8.	Input signal to the floating lock status (on or off) detection switch. (The signal is locked at "L".) (Switch Q)
9.	Input to the disc sensor (Disc detected if "H".) (Switch B)
10, 11.	GND
12.	Input to the GFS (frame sync lock status display). (Normal when "H".)
13.	SENSE signal input (IC502 and IC503 internal status input).
14.	FOK signal input (Focus OK Signal input).
15.	Output signal to detect high temperature. (Usually, set to "H".)
16.	Digital mute control output. (Mute on when "H".)

Pin No.	Description
17.	Emphasis control (on or off) output.
18.	Audio mute control output.
19.	PLL lock range control output (on when "H").
20.	IC503 clock control (on or off) output (on when "H").
21.	IC502 and IC503 reset control (on or off) output (on when "H").
22.	Laser control (on or off) output (on when "L").
23.	8cm disc gain control ("H". if 8cm)
24, 25.	GND
26.	VDD
27, 39.	Chip select signal input.
28, 38.	VDD
29, 30.	Crystal connection terminal.
31.	Reset signal input.
32.	Plunger control (on or off) output (on when "H").
33, 34.	Loading motor control output (Disc is loaded when the signal changes from "H" to "L" and ejected when the signal is changes from "L" to "H".
35.	"H" is output during test mode.
36.	"H" is output if an error occurs during test mode.
37.	Reserved.
40.	Input of the clock signal from the main microcomputer.
41.	Serial data output to the main microcomputer.
42.	Reserved.
43.	Serial data input from the main microcomputer.
44.	GND
45 - 48	Reserved.
49.	Input for detection of sound skip during test mode
50 - 52.	GND
53 - 56.	Test mode setting terminals.
57.	Reserved.
58.	VDD
59.	Subcode sync SO+Sl Signal input.
60.	Signal output to the main microcomputer, requesting communication.(Communication is requested when "L".)
61, 62.	Sled motor control output (Motor is locked when the signal changed from "L" to "H" and released when the signal changes from "H" to "L".)
63.	Subcode Q signal input.
64.	Clock output for the subcode Q signal input.

IC901 PINS (CXP5048)

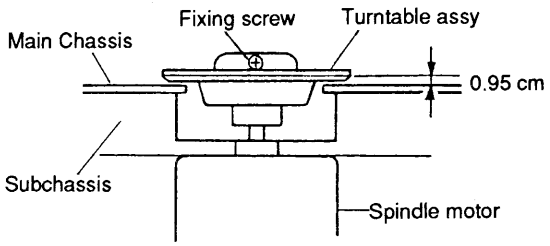
Port	Pin No.	Signal	I/O	Description
PB1	1		O	(Reserved.)
PB2	2		O	(Reserved.)
PB3	3		I	(Reserved.)
PE0	4	KO0	O	Key scan output port. (LOW output)
PE1	5	KO1	O	
PE2	6	KO2	O	
PE3	7	KO3	O	
PF0	8	KO4	O	
PF1	9	KO5	O	
PF2	10		O	(Reserved.)
PF3	11		O	(Reserved.)
PC0	12	KI0	I	Key scan input port. (LOW input)
PC1	13	KI1	I	
PC2	14	KI2	I	
PC3	15	KI3	I	
PD0	16	DATA IN	I	(Fixed at "H".)
PD1	17	BUSY	I	(Fixed at "H".)
PD2	18	CD TEST	I	Test mode CD. (Fixed at ordinary "H".)
PD3	19	BATT. C	I	Input the check of battery. (Fixed at "H".)
PG0	20	CE (LCD)	O	Chip cell to the indication driver.
PG1	21	CE (ROM)	O	(Reserved.)
PG2	22	CLK	O	(Reserved.)
PG3	23	DATA	O	(Reserved.)
PH0	24	CE (PLL)	O	(Reserved.)
V_{SS}	25	GND		GND
V_{DD}	26	+5 V		+B (5 V)
PH1	27	I. CLK	O	(Reserved.)
PH2	28	LAMP ON	O	(Reserved.)
PH3	29	CLK. T	O	(Reserved.)
XTAL	30			Use the connection of X'tal.
EXTAL	31			Use the connection of X'tal.
RST	32	RESET	I	Input the reset signal.

Port	Pin No.	Signal	I/O	Description
SC	33	SCR	O	Output the clock to the indication driver of CD.
SOB	34	SO	O	Output the data to the indication driver of CD.
PX2	35	SRQ	I	Input the SRQ of CD.
SI	36	SI	I	Input the data of CD.
PY0	37	CS	O	Chip cell of CD.
PWM	38	DIMMER	O	(Reserved.)
WP	39	START	I	Input the wake up.
EC	40		I	(Fixed at "H".)
PL0	41	CD ON	O	Output the power of CD.
PL1	42	CD/TU	O	(Reserved.)
PL2	43	RST. O	O	Output the reset of CD.
PL3	44	DISC IN	O	Output the disc indicator.
PM0	45		O	(Reserved.)
PK0	46	ILL	I	DAYLIGHT/NIGHT
PK1	47	ST	I	(Fixed at "L".)
PK2	48	WATCH	I	(Fixed at "L".)
PK3	49	PMI	I	(Fixed at "L".)
PI0	50	SET1	O	(Reserved.)
PI1	51	SET2	O	(Reserved.)
PI2	52	OE	O	(Reserved.)
PI3	53	INH	O	Output the INH of LCD driver.
PJ0	54	CSW	I	Input the CD C. SW.
PJ1	55		I	(Fixed at "H".)
PJ2	56	REM IN	I	Inputs the REMOTE IN.
PJ3	57	TUNER SW	I	(Fixed at "H".)
V_{DD}	58	+5V		+B (5V)
INT	59	ACC. C	I	Input the check ACC.
PA0	60	I. SI	I	(Fixed at "H".)
PA1	61	MUTE	O	Output the MUTE.
PA2	62	POWER	O	(Reversed.)
PA3	63	REM O	O	Output the REMOTE OUT.
PB0	64		O	(Reserved.)

SECTION 4
MECHANICAL ADJUSTMENTS

Turntable Height Adjustment

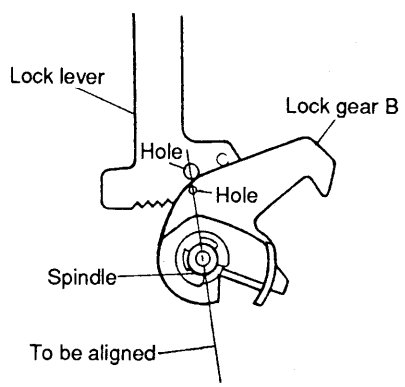
Loosen the fixing screws and adjust the height to the specification illustrated.



Lock Gears (A and B) Installing Adjustment

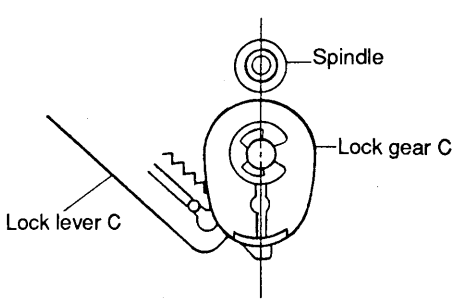
Since installing lock gears A and B is the same, only lock gear B is described below.

1. Rotate the gear near the motor with your fingers to move the optical section toward the external circumference.
2. Continue to rotate the gear until the lock gear is disconnected from the notch of the chassis and stops.
3. Fix the lock gear so that the holes of the lock lever and the lock gear and the spindle are roughly aligned.



Lock Gear C installing Position Adjustment

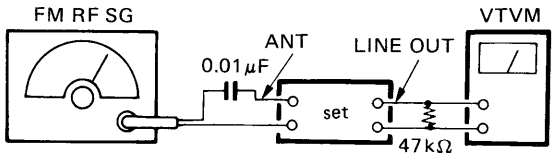
1. Rotate the gear near the motor and move the optical section toward the external circumference.
2. Continue to rotate the gear until the lock gear is disconnected from the notch of the chassis and stops.
3. Fix lock gear C so that the spindle, the lock gear C fixing axis and the center of the lock gear C projection are roughly aligned.



SECTION 5
ELECTRICAL ADJUSTMENTS

Pilot cancel adjustment

Adjustment:

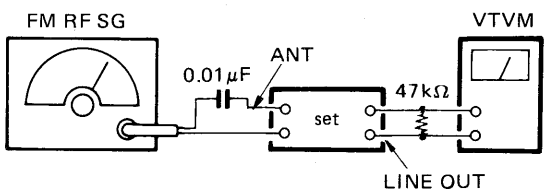


Carrier frequency: 83MHz
Output level: 1mv (60dB)
Mode: Stereo
Modulation: Pilot signal 19KHz, 7.5KHz deviation (10%)

Procedure:
1. Tune-up at 83MHz.
2. Adjust RV602 so that the VTVM reading is minimum.

FM stereo separation adjustment
Conditions:
BAND SWITCH FM STEREO
FREQUENCY 83MHZ

Adjustment:



Carrier frequency 83MHz
Mode Stereo
Modulation Main channel: 1KHz, 33.75KHz deviation (45%)
Pilot signal: 19KHz, 7.5KHz deviation (10%)
Subchannel: 1KHz, 33.75KHz deviation (45%)
Output lever 60 dB (1mV)

Procedure:

FM Stereo SSG Output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	Adjust RV601 so that the VTVM reading is minimum. (B)
R-CH	R-CH	(C)
L-CH	R-CH	Adjust RV601 so that the VTVM reading is minimum. (D)

Note: The separation values in the two channels should be identical.
(A) – (B) = (C) – (D)

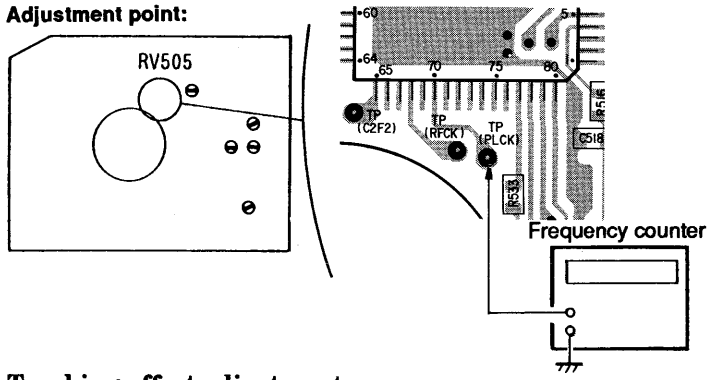
PLL free-run frequency adjustment

Adjustment:

1. Remove the soldering bridge (EFM) from the MD main board.
2. Connect the frequency counter to test point (PLCK).
3. Turn the power on and adjust RV505 so that frequency counter reading satisfies the specification.

Adjustable limits: 4.3118 to 4.3318MHz

Adjustment point:

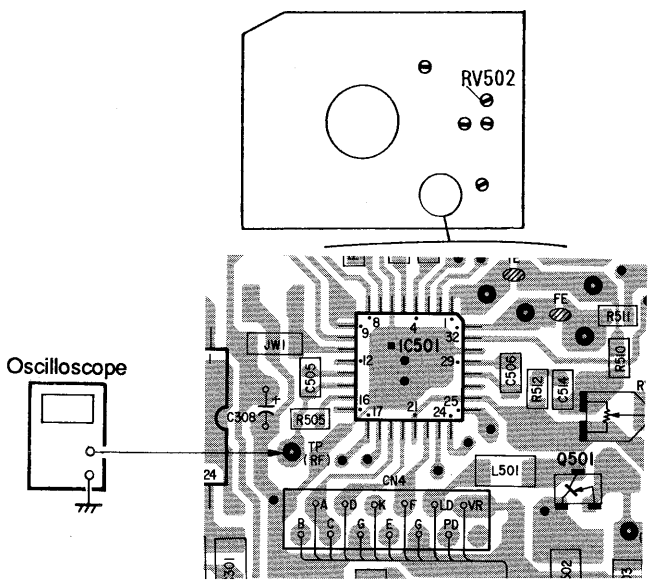


Focus offset adjustment

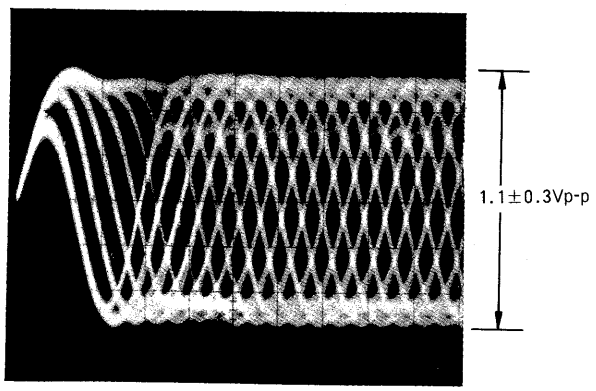
Adjustment:

1. Connect the oscilloscope to test point RF on the MD main board.
2. Load a disc and set mode to PLAY.
3. Adjust RV502 so that the waveform on the oscilloscope (eye pattern) is maximum with good shape. "Well-shaped eye pattern" means that the mark " ◇ " is clearly distinguished at the center of the waveform.

Adjustment point: MD main board



Volt/div: 200mV
Time/div: 0.5µsec

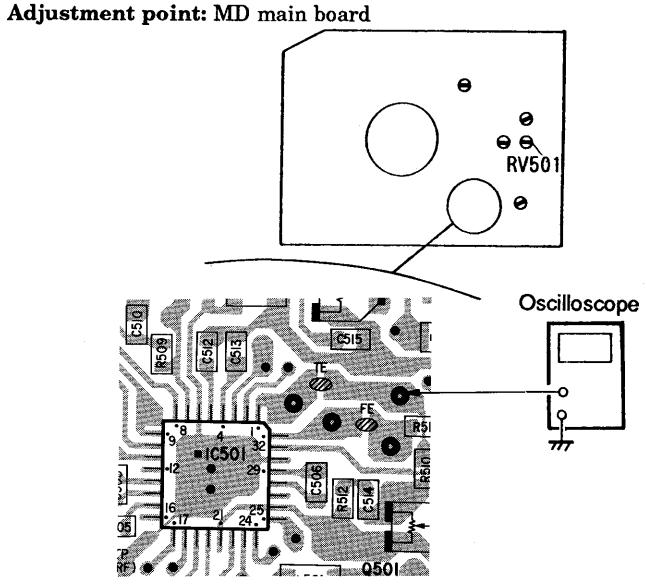


Tracking offset adjustment

Adjustment:

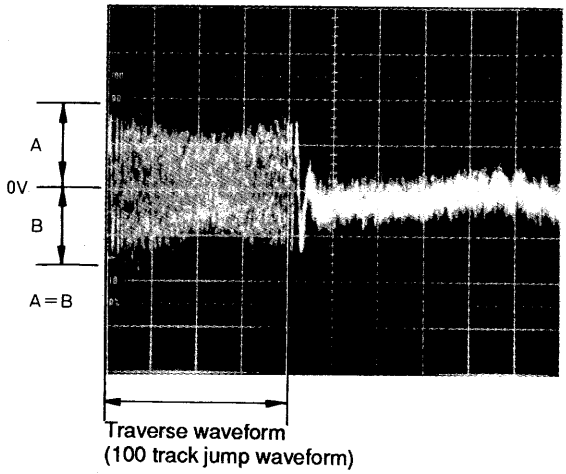
1. Connect the oscilloscope to test point TE on the MD main board.
2. Load a disc and set mode to PLAY.
3. Press button ⏮ or ⏭ (◀◀ or ▶▶) and observe the traverse waveform.
4. Adjust RV501 so that the waveform is symmetric when cenetered at the level to be accessed.

Adjustment point: MD main board



* Traverse waveform: Tracking error waveform which is observed when the track is traversed.

Volt/div: 0.5V
Time/div: 2msec
Center 0V



Traverse waveform
(100 track jump waveform)

Tracking gain adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

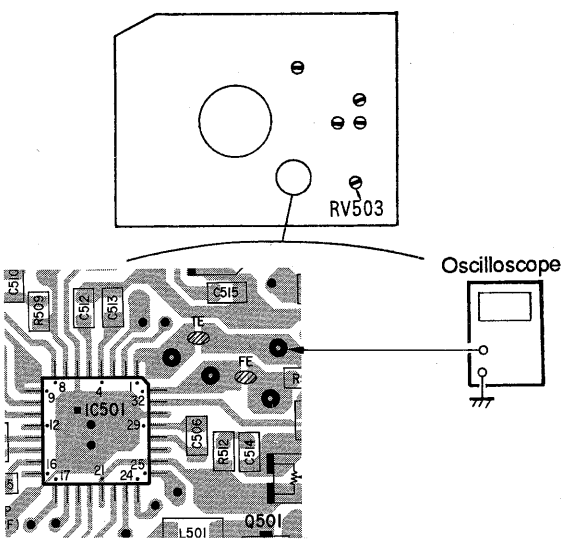
- Optical block
- BF503

Before starting this adjustment, complete the focus offset adjustment and the tracking off set adjustment.

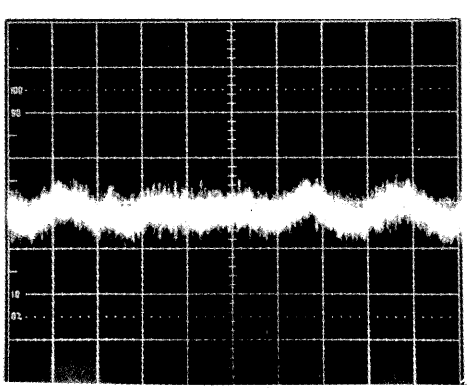
Adjustment:

1. Connect the oscilloscope to test point TE on the main board.
2. Load a disc and set mode to PLAY.
3. Turning RV503 clockwise, from the leftmost position, observe the waveform on the oscilloscope.
   Fix RV503 at the position where the waveform is become stable.

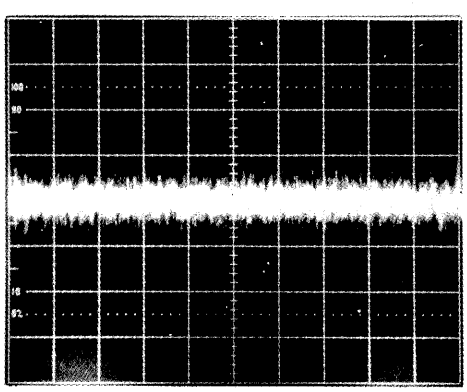
Adjustment point: MD main board



Volt/div: 0.5V
Tile/div: 2msec



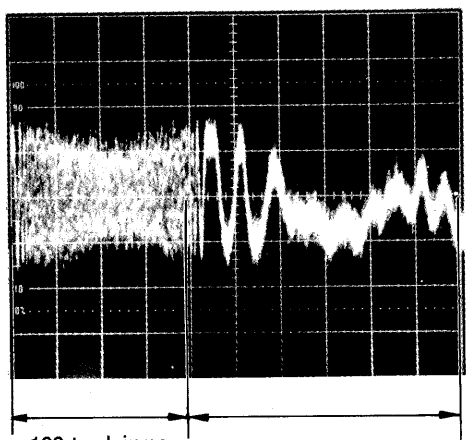
Fluctuating waveform



Stable waveform

- If the gain is too low

When music is selected by pressing button ⏮ or ⏭ , the tracking jump waveform is not focused completely and the music selection is delayed. (Break function does not work wall because its gain is too low.)

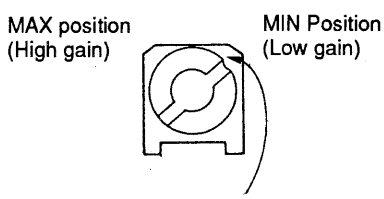


100-track jump waveform

Traverse waveform caused when break is not functioning well

- If the gain is too high

Noise due to scratches and dust is heard and the operation becomes unstable.



The standard setting is with the contact point located at this position.

—RV503 standard setting—

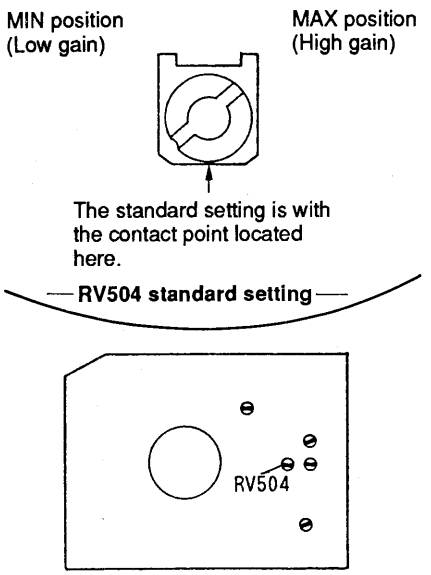
Focus gain adjustment (Coarse adjustment)

This adjustment is not required unless the following parts are replaced:

- Optical block
- RV404

Adjustment

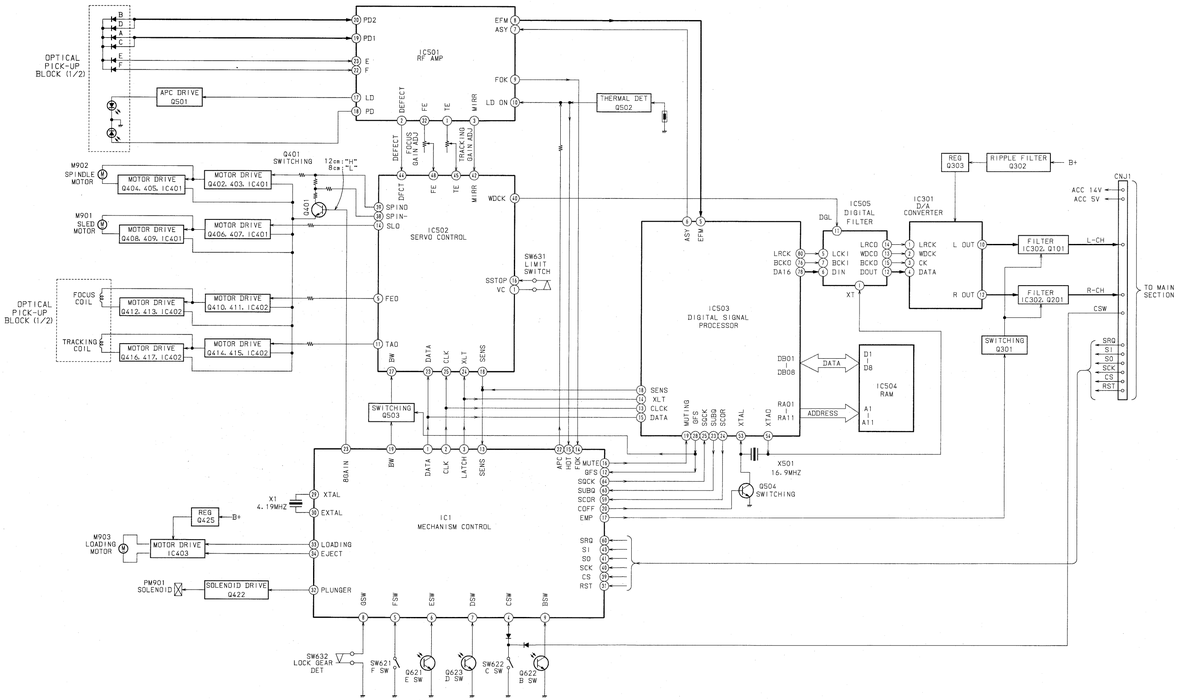
1. Set RV504 to the standard position.
2. Check whether operation noise (white noise type) caused by the double-axis device (lens section of the optical block) is abnormally loud.
   If the operation noise is too loud, turn RV504 slightly counterclockwise.



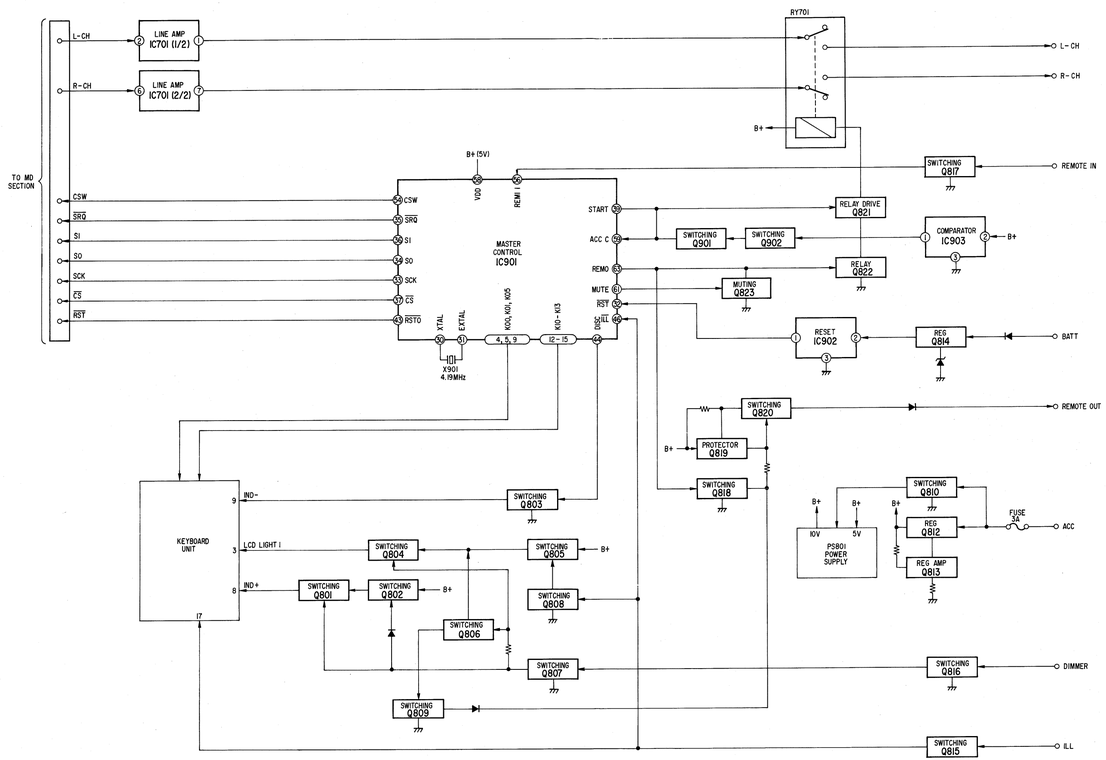
- If the gain is too low:
  Focus does not function and no music is selected.
- If the gain is too high:
  Noise caused by scratches and dust is heard and the operation becomes unstable.

SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM (MD Section)



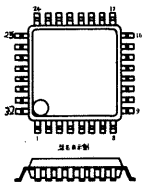
6-2. BLOCK DIAGRAM (MAIN Section)



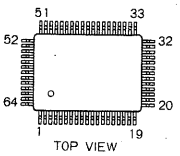
6-3. SEMICONDUCTOR LEAD LAYOUTS

(MD SECTION)

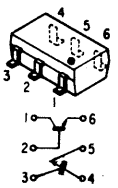
CXA1081Q



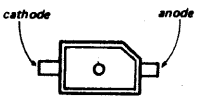
CXP5068H-008Q



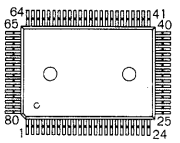
IMX2



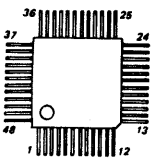
LN1261C



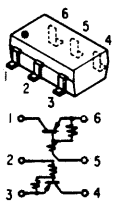
CXD1130Q



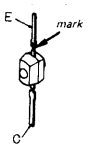
CXA1082AQ



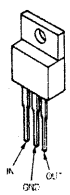
IMB1



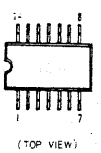
PN147-LF-R



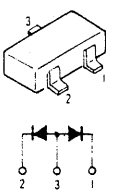
RC7805FA



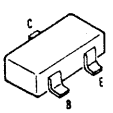
BU4066BF



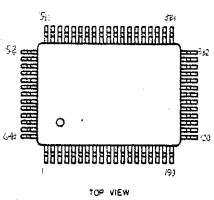
1S2836



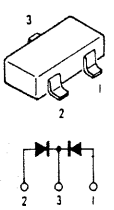
DTA114EK
DTC114TK
DTC124EK
DTC343TK
2SB1124S
2SC2712G
2SJ106-GR



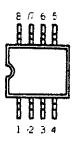
CXP5048H-237Q



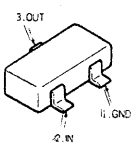
MA152WK



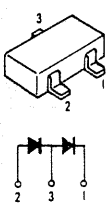
CXK1011M
NJM082BM



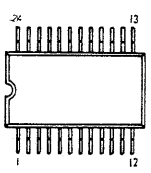
DTB123EK



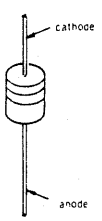
HSM123



LC7218M



11ES



• SEMICONDUCTOR LOCATION (MD Section)

Ref. No.	Location No.	Ref. No.	Location No.
D1	D-8	Q401	D-11
D301	H-9	Q402	B-10
D302	H-8	Q403	B-10
D401	B-8	Q404	B-10
D402	C-8	Q405	B-11
D631	E-3	Q406	B-11
D632	G-3	Q407	B-11
D633	G-4	Q408	B-11
D901	F-11	Q409	B-11
		Q410	B-12
IC1	E-7	Q411	B-12
IC301	H-10	Q412	B-12
IC302	G-8	Q413	B-13
IC401	C-11	Q414	B-11
IC402	C-13	Q415	B-12
IC403	B-7	Q416	B-12
IC501	G-11	Q417	B-12
IC502	E-12	Q422	C-8
IC503	D-9	Q425	B-7
IC504	B-9	Q501	H-12
IC505	G-10	Q502	D-8
		Q503	C-11
Q101	H-8	Q504	D-8
Q201	G-8	Q621	I-4
Q301	F-8	Q622	J-3
Q302	H-8	Q623	J-4
Q303	H-9		

Note on printed wiring boards (MD Section)

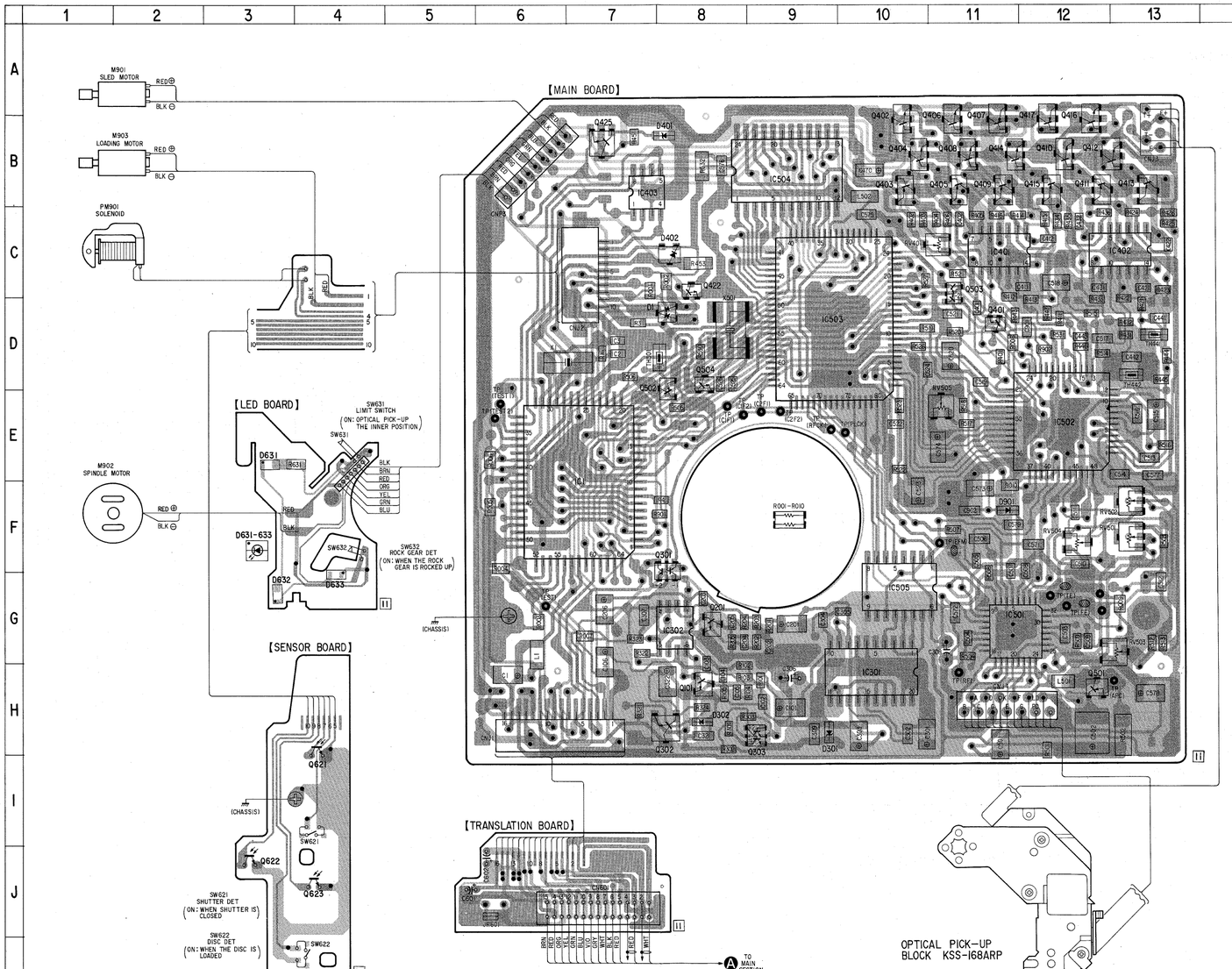
- ○——: parts extracted from the component side.
- ——: parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▨ : Pattern on the side which is seen.
- ▨ : Pattern of the rear side.

Note on schematic diagram (MD Section):

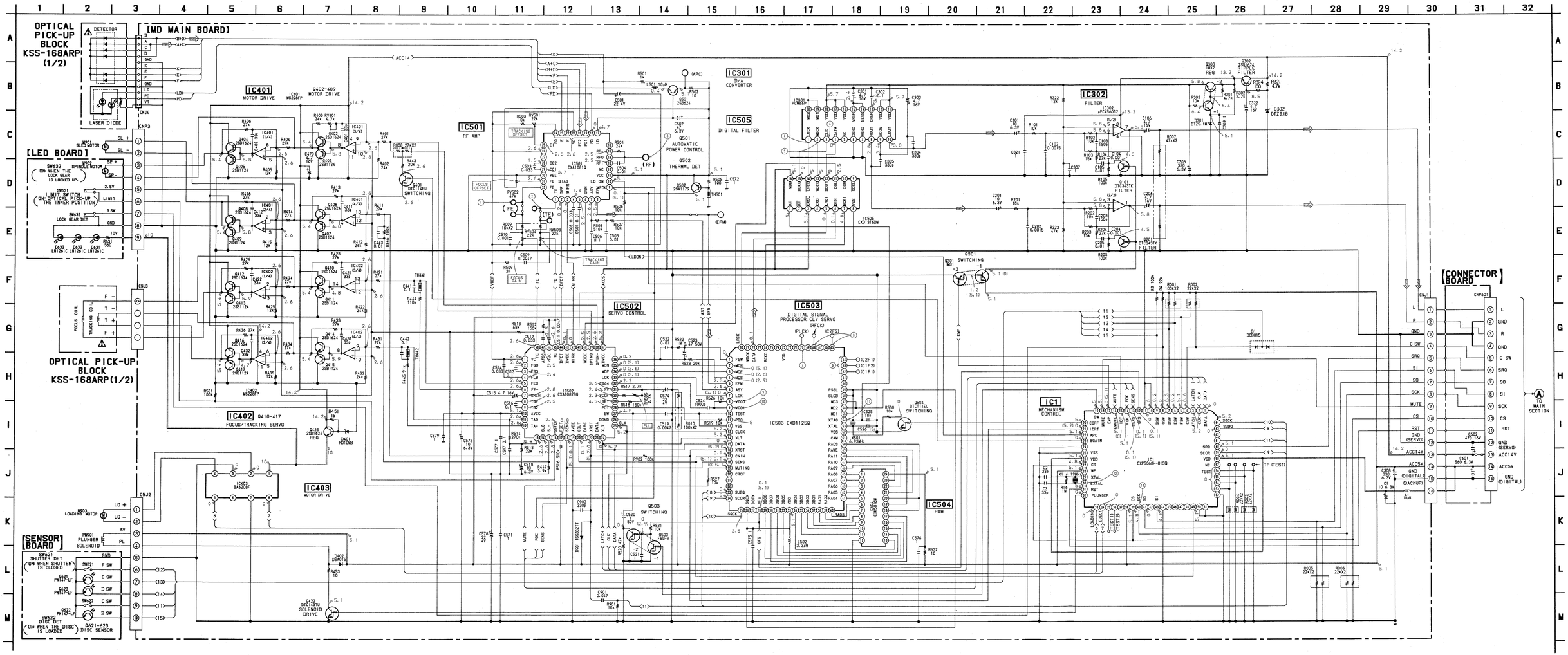
- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ——: B +line
- ▭: adjustment for repair.
- Power voltage is dc 14.4V and fed with regurated dc power. supply from battery and accesory terminal.
- Voltages and waveforms are dc with respect to ground under no signal conditions.
  no mark: STOP
  ( ) : PLAY
- Voltages are taken with a VOM. (Input inpedance 10M Ω)
  Voltage variations may be noted due to normal production torerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ▻▻: CD

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

6-4. PRINTED WIRING BOARDS (MD Section)

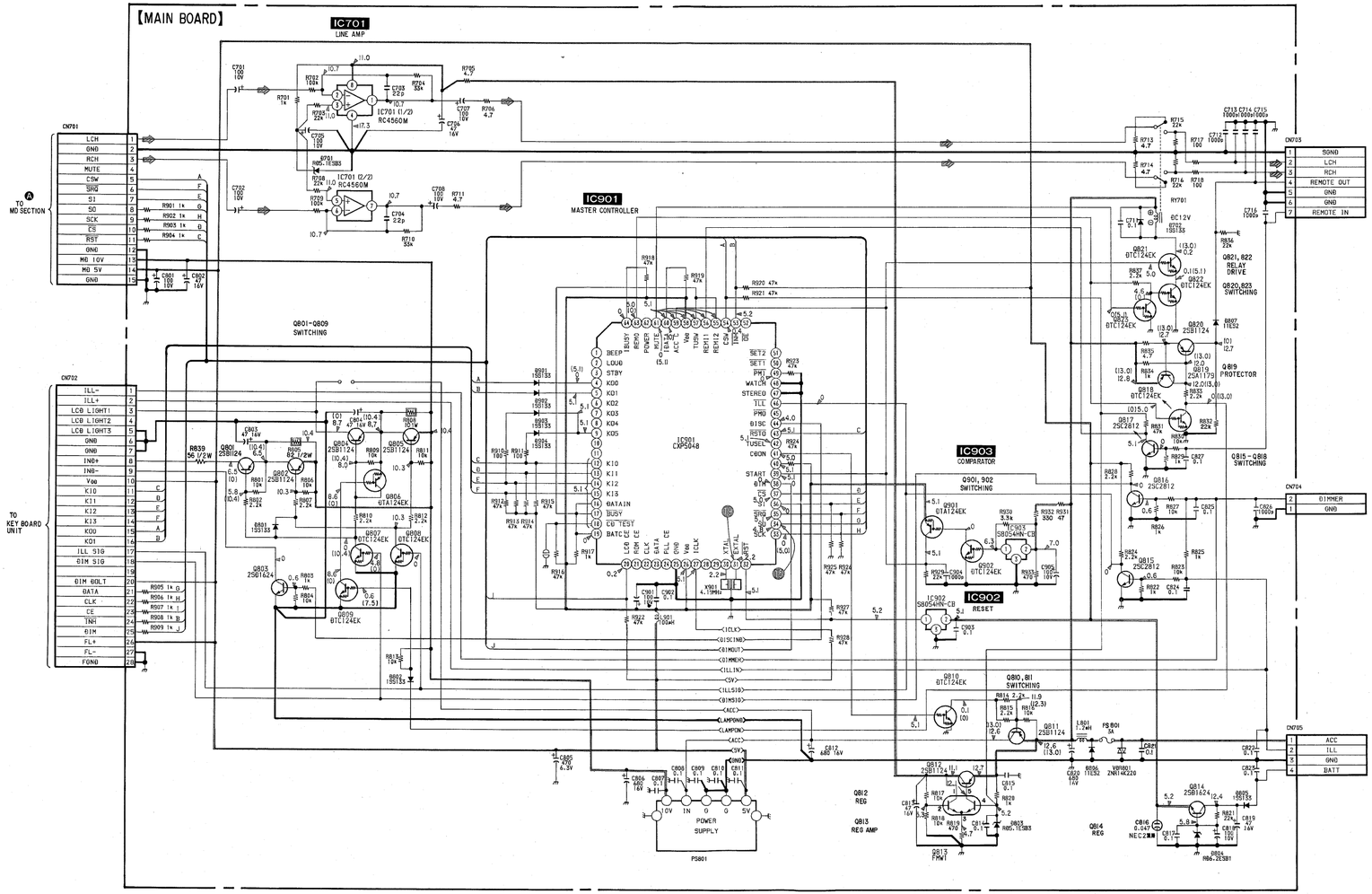

【MAIN BOARD】
【LED BOARD】
【SENSOR BOARD】
【TRANSLATION BOARD】
M901 SLED MOTOR
M903 LOADING MOTOR
PM901 SOLENOID
M902 SPINDLE MOTOR
SW631 LIMIT SWITCH (ON: OPTICAL PICK-UP THE INNER POSITION)
SW632 ROCK GEAR DET (ON: WHEN THE ROCK GEAR IS ROCKED UP)
SW621 SHUTTER DET (ON: WHEN SHUTTER IS CLOSED)
SW622 DISC DET (ON: WHEN THE DISC IS LOADED)
TO A MAIN SECTION
OPTICAL PICK-UP BLOCK KSS-168ARP

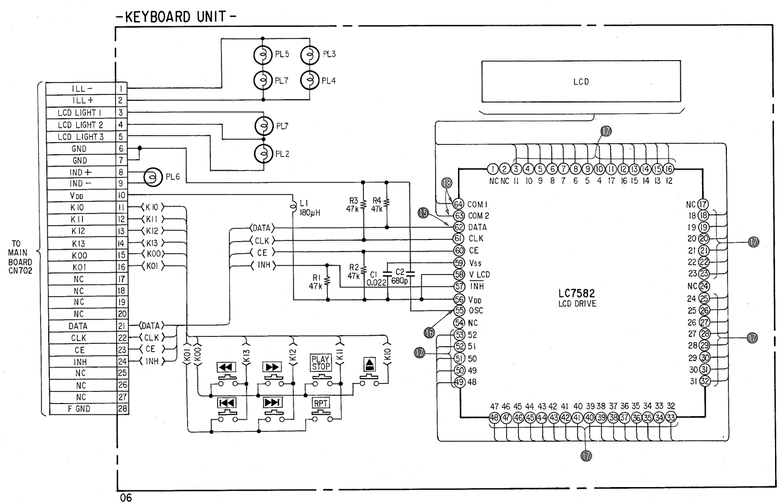
6-5. SCHEMATIC DIAGRAM (MD Section) ● Refer to page 20 for note.



6-6. SCHEMATIC DIAGRAM (MAIN Section)

• Refer to page 35 on waveforms.

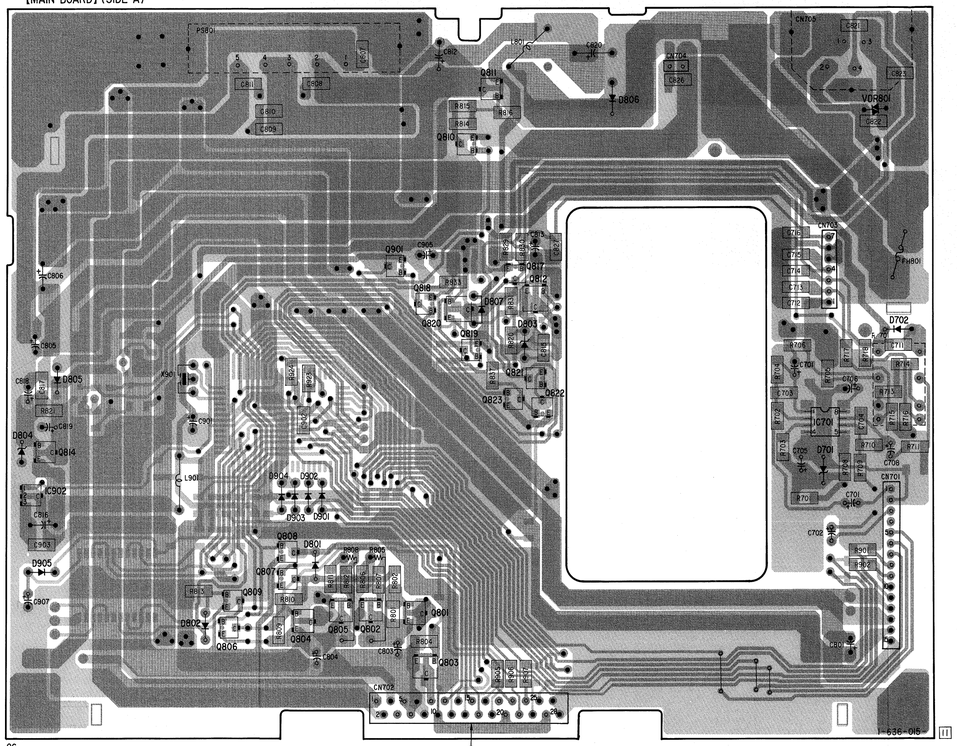




Note on schematic diagram (MAIN Section):

- All capacitors are in μF unless otherwise noted. pF: μμF
  50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ——: B +line
- ▭: adjustment for repair.
- Power voltage is dc 13.2V and fed with requrated dc power. supply from battery, accesory terminals.
- Voltage and waveforms are dc with respect to ground under no signal conditions.
  no mark: PLAY MODE
  ( ) : STOP MODE
- Voltages are taken with a VOM. (Input impedance 10M Ω)
  Voltage variations may be noted due to normal production torerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ▱▱: CD

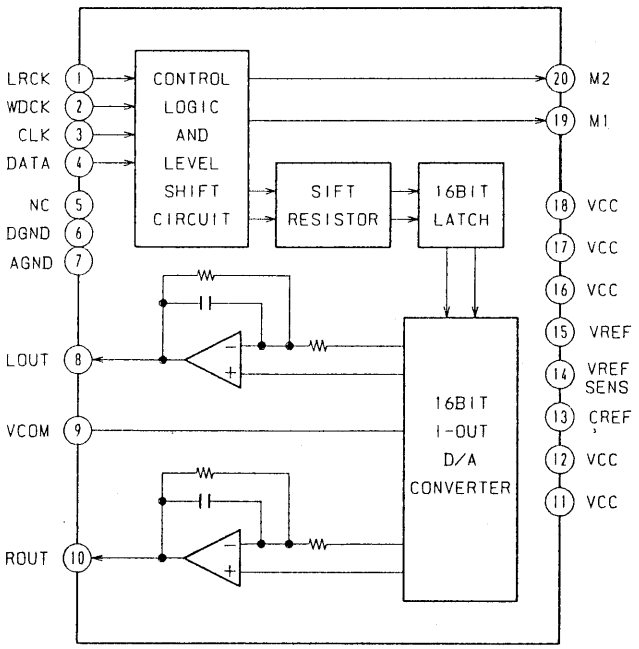
【MAIN BOARD】(SIDE A)



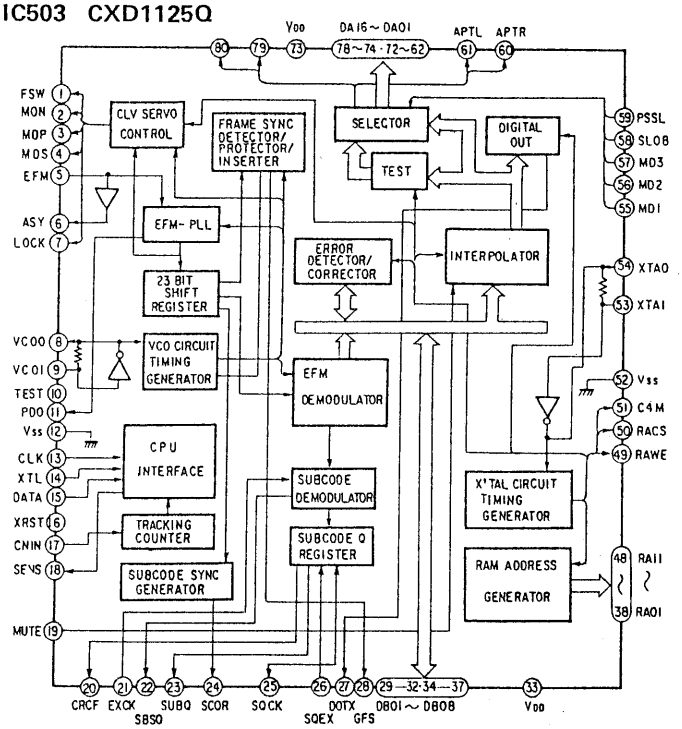
6-8. IC BLOCK DIAGRAM

(MD SECTION)

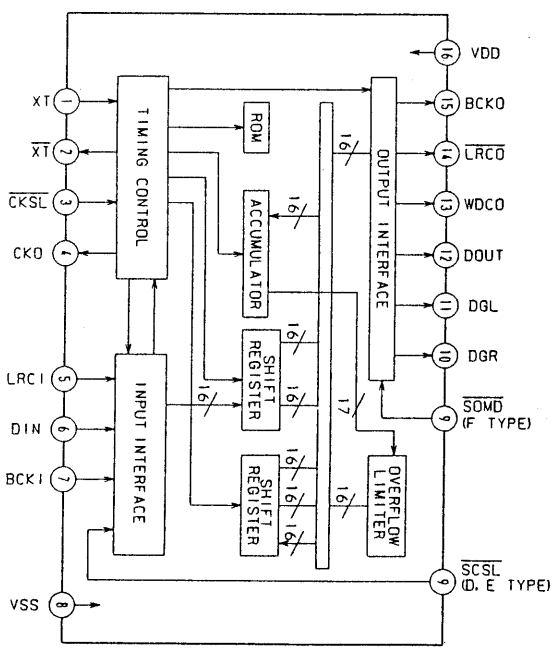
IC301 PCM-66P



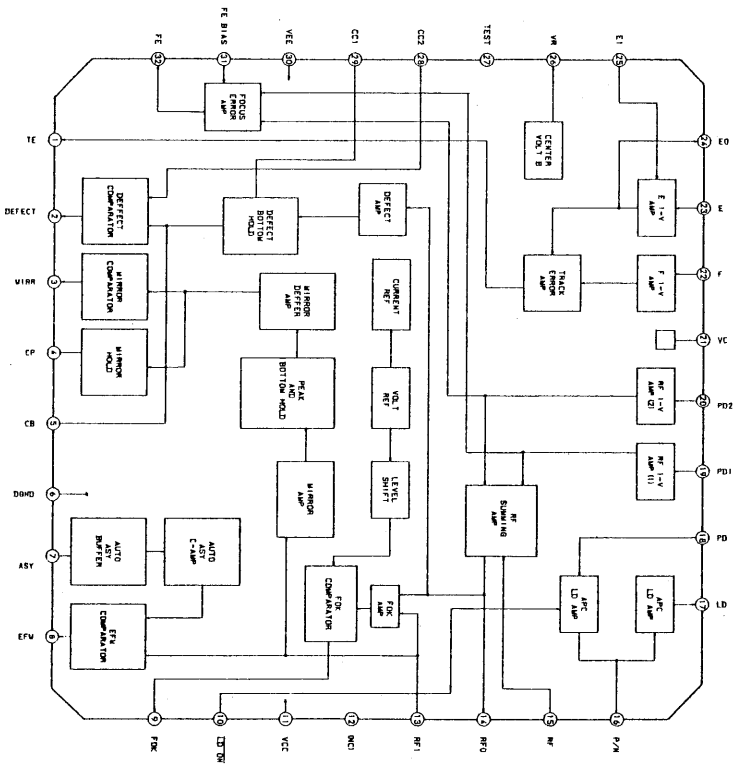
IC503 CXD1125Q



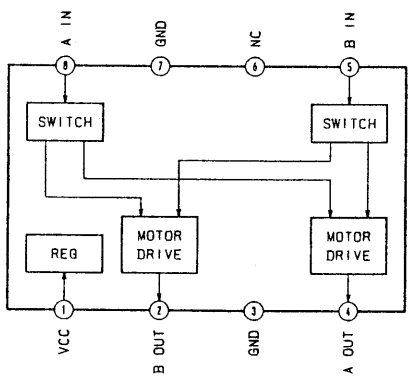
IC505 CXD1316DM



IC501 CXA1081Q

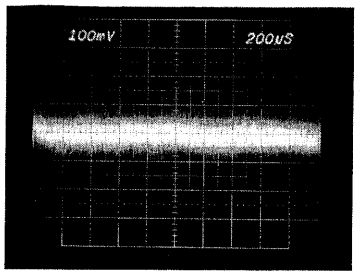


IC403 BA6208F

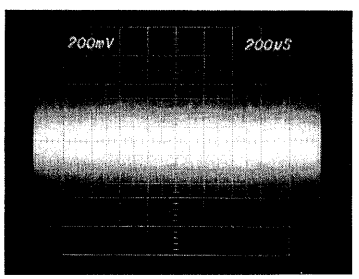


6-9. WAVEFORMS –MD Section–

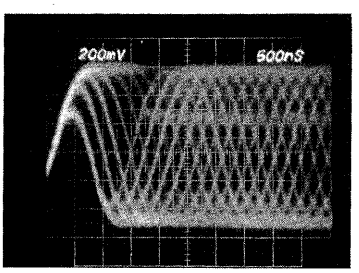
①



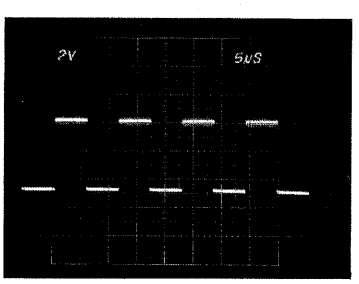
②



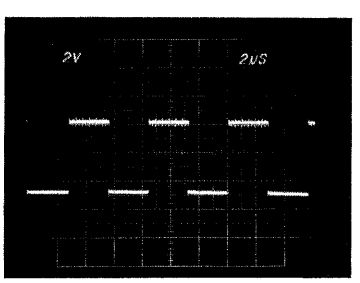
③



④



⑤



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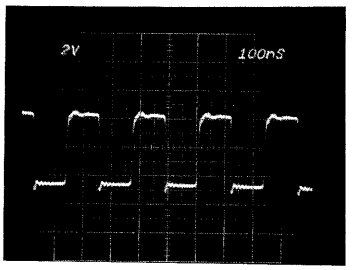

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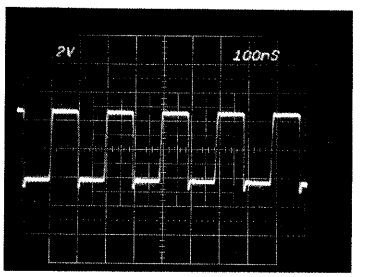

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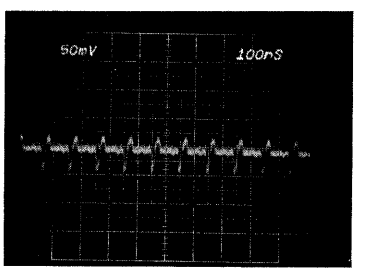

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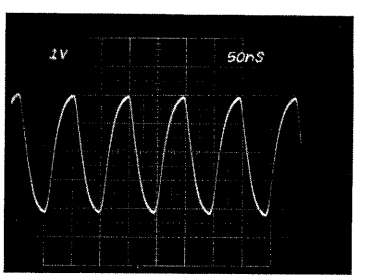

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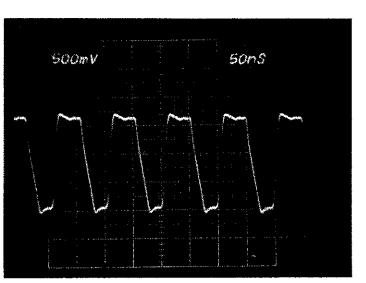

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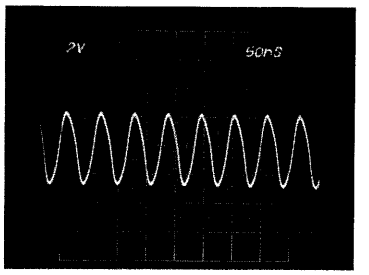

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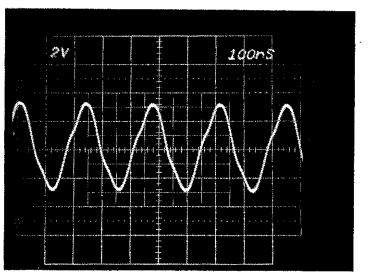
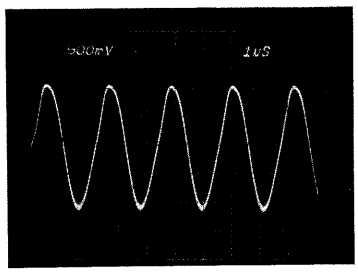


– MAIN Section –

⑭



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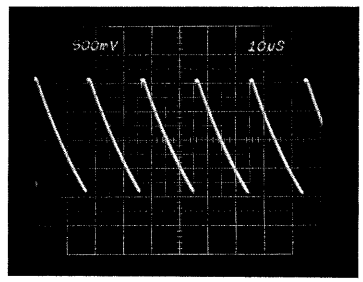
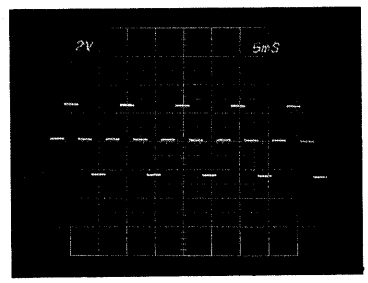


⑱



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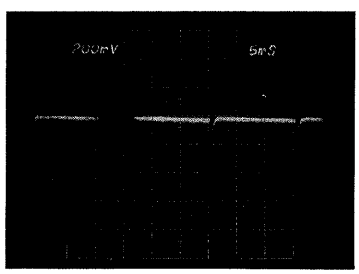

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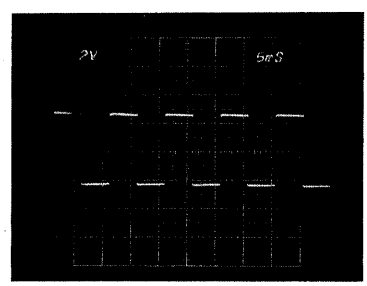

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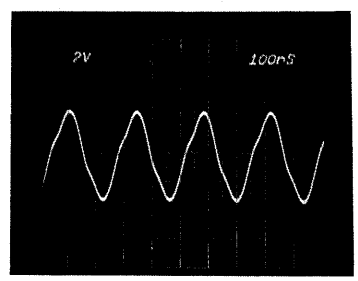


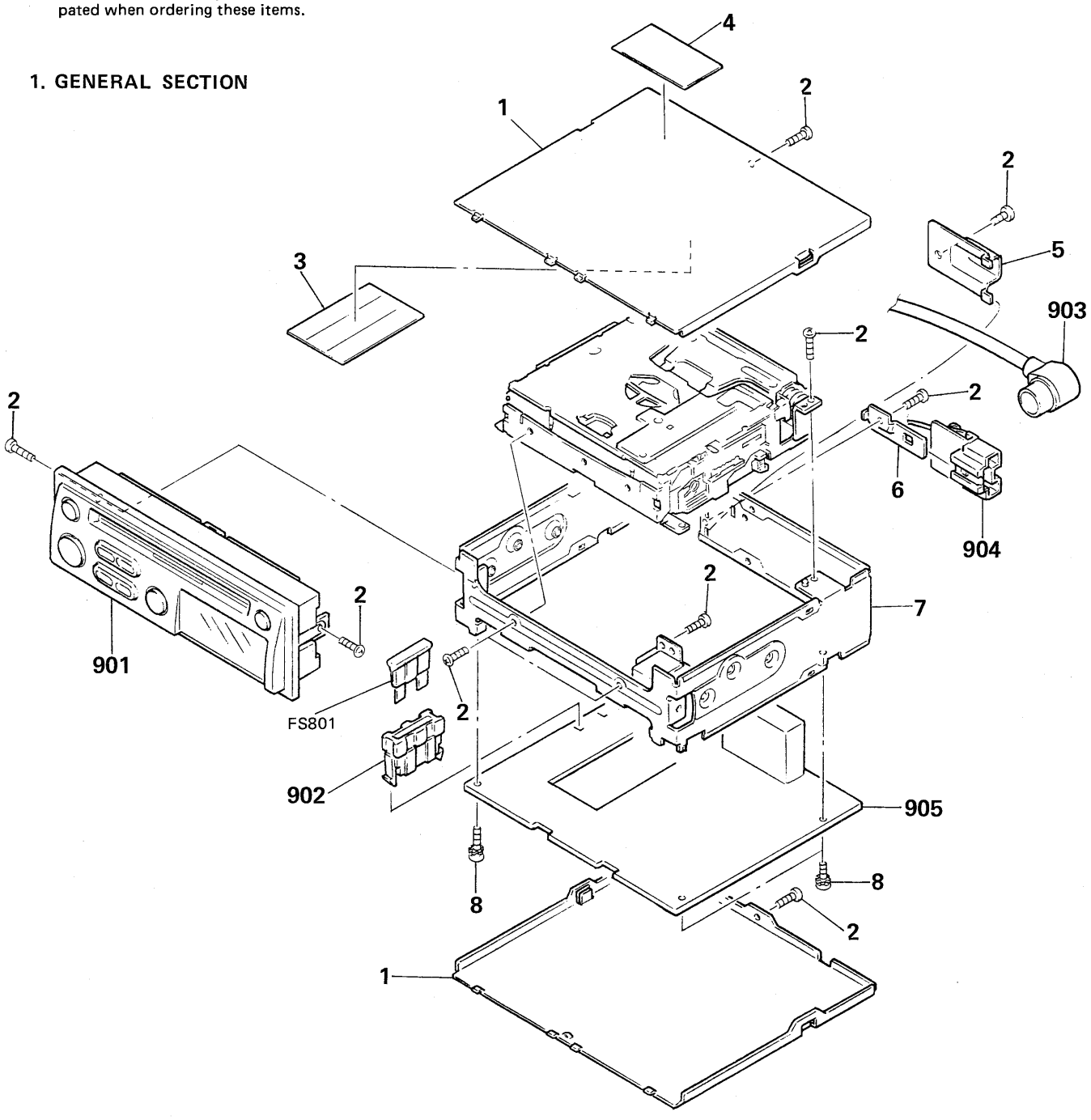
SECTION 7
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) ... KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

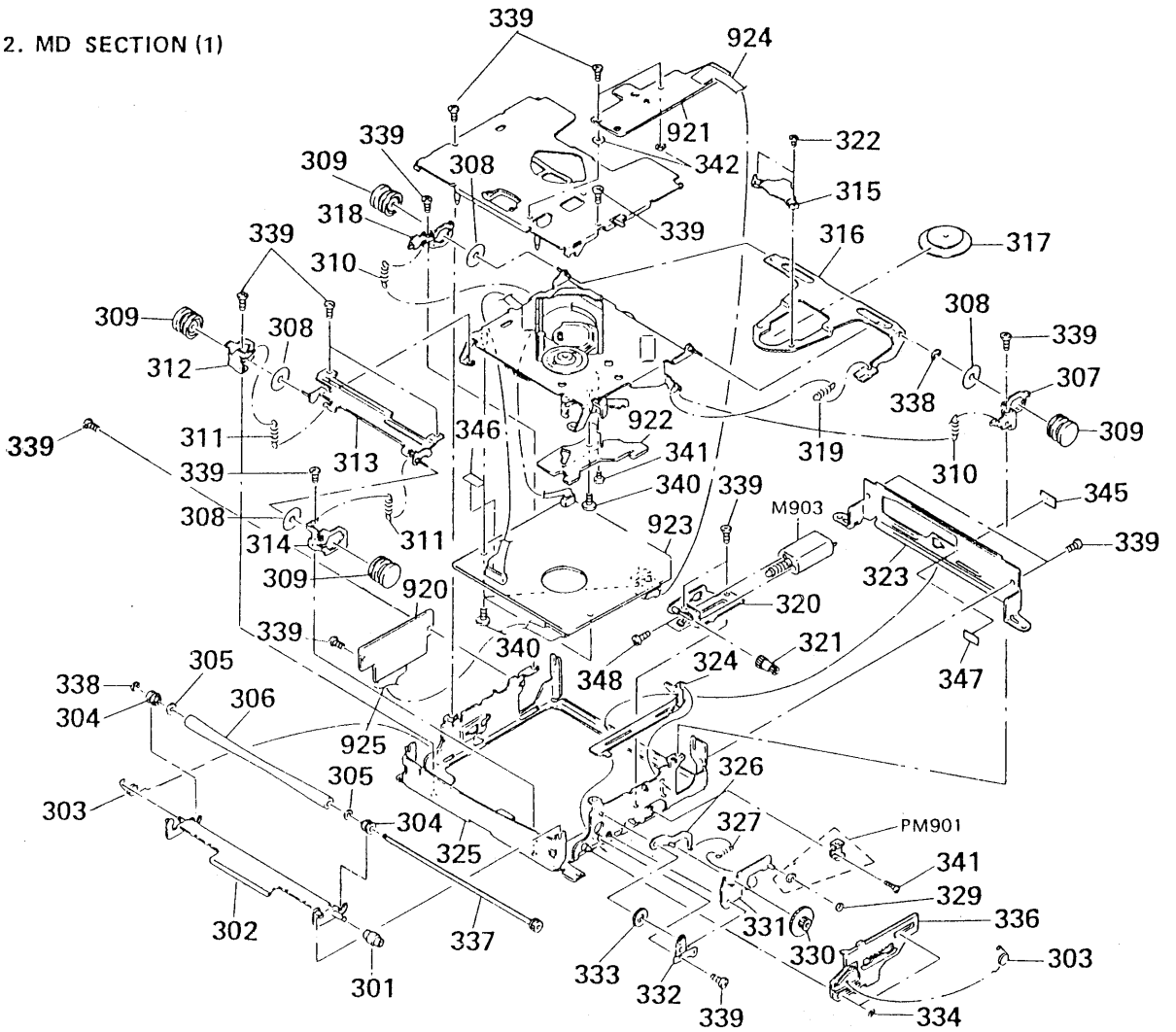
1. GENERAL SECTION



No.	Part No.	Description	Remarks
1	*3-360-711-01	COVER	
2	7-621-770-67	SCREW +PTT 2.6X6 (S)	
3	3-327-119-01	SHEET (MD), INSULATING	
4	*3-362-356-01	LABEL, MODEL NUMBER (NISSAN)	
5	*3-320-587-01	STOPPER (C), CORD	
6	*3-348-535-01	BRACKET (CONNECTER)	
7	*X-3331-920-1	CHASSIS ASSY	
8	7-621-770-67	SCREW (+PTT 2.6X8), GROUND POINT	

No.	Part No.	Description	Remarks
901	1-466-390-11	KEY BOARD UNIT	
902	1-533-179-11	HOLDER, FUSE	
903	1-559-960-31	CORD (WITH CONNECTOR)(5P DIN)	
904	1-574-182-21	CORD (WITH CONNECTOR)(ILL CON)	
905	*A-3261-250-A	MOUNTED PCB, MAIN	
FS801	1-532-731-11	FUSE (BRADE TYPE) (AUTO FUSE)(3A)	

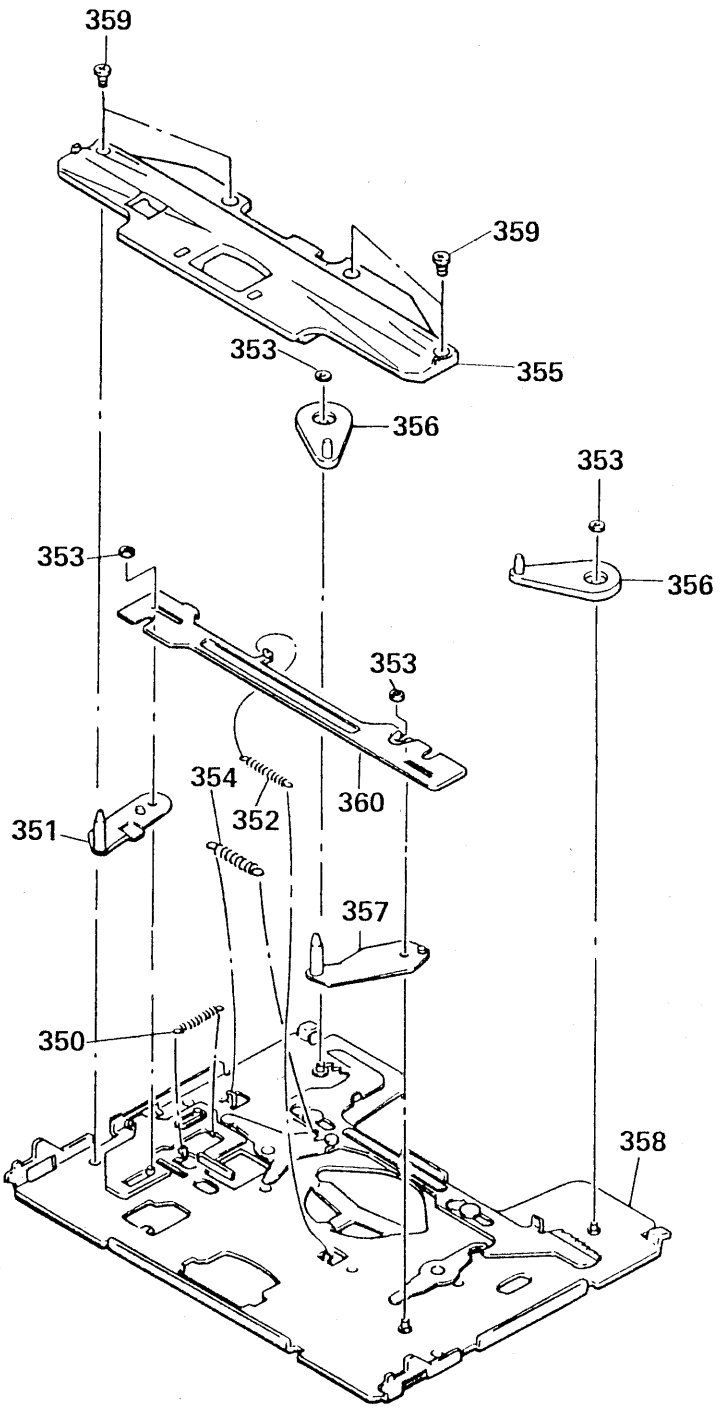
2. MD SECTION (1)



No.	Part No.	Description	Remarks
301	3-351-495-01	SLEEVE (2)	
302	*X-3351-422-1	BRACKET (ROLLER) ASSY	
303	3-351-437-01	SPRING (ROLLER)	
304	3-351-416-01	BEARING (ROLLER SHAFT)	
305	3-701-438-21	WASHER	
306	3-323-231-02	ROLLER (LOWER)	
307	*3-351-494-01	BRACKET (DAMPER C)	
308	3-323-263-01	WASHER, TEFLON	
309	3-330-929-01	DAMPER (S), HYPER	
310	3-351-445-01	SPRING (FLOATING C.D), TENSION	
311	3-351-444-01	SPRING (FLOATING A.B), TENSION	
312	*3-351-493-01	BRACKET (DAMPER B)	
313	*X-3351-423-1	BRACKET (F) ASSY	
314	*3-351-492-01	BRACKET (DAMPER A)	
315	3-342-625-01	RETAINER (S2), THRUST	
316	*3-351-453-01	ARM, CHUCKING	
317	3-348-558-01	PLATE (F), CHUCK	
318	*3-351-411-01	BRACKET (DAMPER D)	
319	3-351-443-01	SPRING (CHUCKING), TENSION	
320	*X-3351-419-1	BRACKET (M) ASSY	
321	3-354-758-01	GEAR (B)	
322	7-627-552-18	SCREW, PRECISION +P 1.7X1.6	
323	*3-351-483-01	BRACKET (REAR A)	
324	*X-3351-418-1	LEVER (CH RELEASE) ASSY	
325	*X-3351-428-2	CHASSIS (MAIN) ASSY	
326	*X-3351-420-1	LEVER (GEAR C) ASSY	
327	3-351-463-01	SPRING (SW LEVER 2), TENSION	
328	*3-351-466-01	SHEET (TH1)	

No.	Part No.	Description	Remarks
329	3-315-384-11	WASHER, STOPPER	
330	3-351-438-01	GEAR, CAM	
331	*X-3351-421-1	LEVER (SW) ASSY	
332	*3-351-482-01	RETAINER (SIDE GEAR)	
333	3-351-414-01	GEAR (C)	
334	3-578-224-00	WASHER	
336	3-351-456-01	LEVER (L, E)	
337	X-3351-413-1	SHAFT (ROLLER)	
338	7-624-104-04	STOP RING 2.0, TYPE -E	
339	7-627-553-28	SCREW, PRECISION +P 2X2.5	
340	7-621-772-08	SCREW +B 2X3	
341	7-627-850-57	SCREW, PRECISION +P 1.4X3.5	
342	3-892-464-01	SPACER, PC BOARD	
343	7-627-554-27	SCREW, PRECISION +P 2X6	
344	3-345-381-02	SPACER	
345	*3-351-470-01	SHEET	
346	*3-351-467-01	SHEET (TH2)	
347	*3-351-464-01	SHEET (SM)	
348	7-627-553-37	SCREW, PRECISION +P 2X3	
920	*1-628-911-11	PC BOARD, TRANSLATION	
921	*1-628-910-11	PC BOARD, SENSOR	
922	*1-628-912-11	PC BOARD, LED	
923	*A-3260-882-A	MOUNTED PCB, MD MAIN	
924	1-629-581-11	PC BOARD, SENSOR FILEXIBLE	
925	1-629-582-11	PC BOARD, TRANSLATION FLEXIBLE	
927	*1-628-450-11	METAL SW BOARD	
M903	A-3249-213-A	GEAR (A) ASSY (LOADING)	
PM901	1-454-461-11	SOLENOID, PLUNGER	

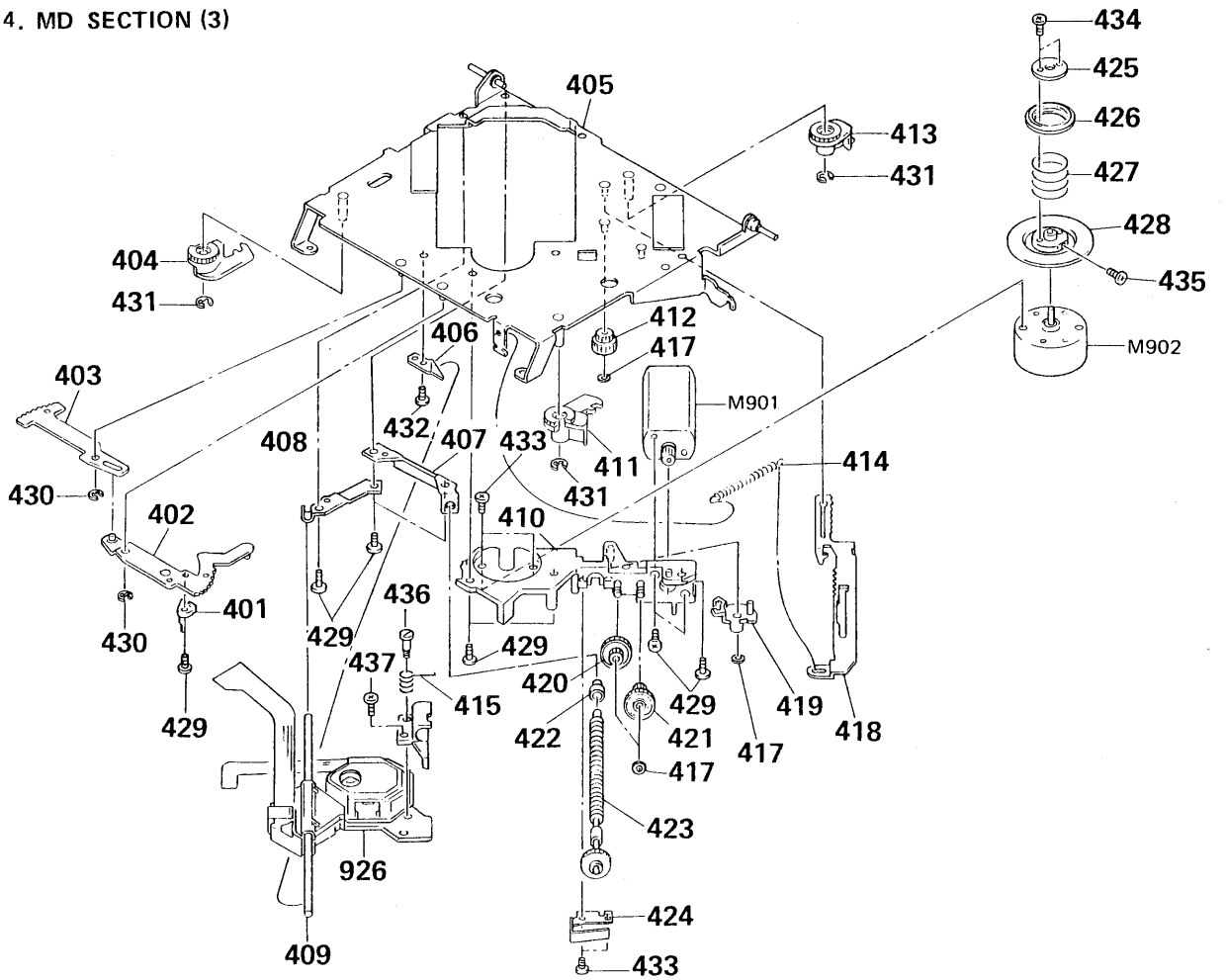
3. MD SECTION (2)



No.	Part No.	Description	Remarks
350	3-351-448-01	SPRING (LOCK LEVER), TENSION	
351	*X-3351-426-1	LEVER (D DETECTION R2) ASSY	
352	3-351-447-02	SPRING (JOINT F), TENSION	
353	3-578-224-00	WASHER	
354	3-351-446-01	SPRING (JOINT R), TENSION	

No.	Part No.	Description	Remarks
355	3-351-496-01	GUIDE (DISK 2)	
356	3-351-432-01	GEAR (DS)	
357	*X-3351-425-1	LEVER (D DETECTION L2) ASSY	
358	*X-3351-424-1	CHASSIS (T2) ASSY	
359	7-627-553-37	SCREW, PRECISION +P 2X3	
360	*3-351-489-02	JOINT (F2)	

4. MD SECTION (3)



No.	Part No.	Description	Remarks
401	*2-643-407-01	PLATE, SWITCH	
402	*X-2641-534-1	LEVER (A) ASSY, LOCK	
403	*2-641-582-01	LEVER (B), LOCK	
404	2-643-414-02	GEAR (B), LOCK	
405	*X-2641-536-2	CHASSIS ASSY, MAIN	
406	2-643-402-01	RETAINER (B), SHAFT	
407	2-643-403-01	RETAINER, FEED SCREW	
408	2-643-401-01	RETAINER (A), SHAFT	
409	2-640-632-01	SHAFT, GUIDE	
410	*X-2641-535-2	CHASSIS ASSY, SUB	
411	2-643-413-02	GEAR (A), LOCK	
412	2-643-405-01	WHEEL, WORM	
413	2-641-599-02	GEAR (C), GEAR	
414	2-641-595-02	SPRING, TENSION	
415	2-643-420-01	SPRING	
416	2-643-412-02	NUT, FEED	
417	3-321-813-01	WASHER, COTTER POLYETHYLENE	
418	*2-641-583-02	LEVER (C), LOCK	
419	2-643-406-02	LEVER, SELECTION	
420	2-643-410-01	GEAR (E)	

No.	Part No.	Description	Remarks
421	2-643-409-01	GEAR (D)	
422	2-643-408-02	RETAINER, THRUST	
423	A-4910-184-B	SCREW ASSY, FEED	
424	2-643-404-01	SPRING	
425	2-640-650-01	STOPPER, RING	
426	2-643-418-01	RING, CENTER	
427	2-640-617-02	SPRING, COMPRESSION	
428	X-2641-541-1	TURNTABLE ASSY	
429	7-627-554-18	SCREW, PRECISION +P 2X3.5 TYPE1	
430	7-624-104-04	STOP RING 2.0, TYPE -E	
431	7-624-106-04	STOP RING 3.0, TYPE -E	
432	7-627-553-17	PRECISION SCREW +P 2X2 TYPE 3	
433	7-627-552-08	SCREW, PRECISION +P 1.7X2.5	
434	7-627-451-17	SCREW, PRECISION +K 1.4X2.5	
435	7-627-451-57	SCREW, PRECISION +K 1.4X4	
436	2-643-423-01	SCREW, SP	
437	7-627-852-17	+P 1.7X4	
M901	A-4910-183-A	MOTOR ASSY, SL (SLED)	
M902	1-541-448-41	MOTOR (SPINDLE)	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(MAIN SECTION)

Ref.No.	Part No.	Description			
901	1-466-390-11	KEY BOARD UNIT			
902	1-533-179-11	HOLDER, FUSE			
903	1-559-960-31	CORD (WITH CONNECTOR)(5P DIN)			
904	1-574-182-21	CORD (WITH CONNECTOR)(ILL CON)			
905	*A-3261-250-A	MOUNTED PCB, MAIN			
C701	1-124-584-00	ELECT	100MF	20%	10V
C702	1-124-584-00	ELECT	100MF	20%	10V
C703	1-163-165-00	CERAMIC CHIP	22PF	5%	50V
C704	1-163-165-00	CERAMIC CHIP	22PF	5%	50V
C705	1-124-584-00	ELECT	100MF	20%	10V
C706	1-124-589-11	ELECT	47MF	20%	16V
C707	1-124-584-00	ELECT	100MF	20%	10V
C708	1-124-584-00	ELECT	100MF	20%	10V
C711	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C712	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C713	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C714	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C715	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C716	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C801	1-124-584-00	ELECT	100MF	20%	10V
C803	1-124-589-11	ELECT	47MF	20%	16V
C804	1-124-589-11	ELECT	47MF	20%	16V
C805	1-124-518-11	ELECT	470MF	20%	6.3V
C806	1-124-534-11	ELECT	680MF	20%	16V
C807	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C808	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C809	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C810	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C811	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C812	1-124-534-11	ELECT	680MF	20%	16V
C813	1-124-589-11	ELECT	47MF	20%	16V
C814	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C815	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C816	1-125-559-11	DOUBLE LAYERS	0.047F		5.5V
C817	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C818	1-124-584-00	ELECT	100MF	20%	10V
C819	1-124-589-11	ELECT	47MF	20%	16V
C820	1-124-534-11	ELECT	680MF	20%	16V
C821	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C822	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C823	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C824	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C825	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C826	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C827	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C901	1-124-584-00	ELECT	100MF	20%	10V
C902	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C903	1-163-077-00	CERAMIC CHIP	0.1MF		50V
C904	1-163-205-00	CERAMIC CHIP	0.001MF	5%	50V
C905	1-124-584-00	ELECT	100MF	20%	10V
CN701	*1-506-997-11	PIN, CONNECTOR (PC BOARD) 15P			
CN702	*1-565-450-21	SOCKET, CONNECTOR 28P			
CN703	*1-566-004-11	PIN, CONNECTOR (PC BOARD) 7P			
CN704	*1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P			
CN705	*1-565-517-11	CONNECTOR			
D701	8-719-109-86	DIODE RD5.1ES-B3			
D702	8-719-200-82	DIODE 11ES2			
D801	8-719-911-19	DIODE 1SS119			
D802	8-719-911-19	DIODE 1SS119			
D803	8-719-109-86	DIODE RD5.1ES-B3			
D804	8-719-109-92	DIODE RD6.2ES-B1			
D805	8-719-911-19	DIODE 1SS119			
D806	8-719-200-82	DIODE 11ES2			
D807	8-719-200-82	DIODE 11ES2			
D901	8-719-911-19	DIODE 1SS119			
D902	8-719-911-19	DIODE 1SS119			
D903	8-719-911-19	DIODE 1SS119			
D904	8-719-911-19	DIODE 1SS119			
FS801	1-532-731-11	FUSE (BRADE TYPE) (AUTO FUSE)(3A)			
IC701	8-759-981-99	IC RC4560M			
IC901	8-752-816-08	IC CXP5048H-237Q			
IC902	8-759-940-45	IC S-8054HN-CB			
IC903	8-759-940-45	IC S-8054HN-CB			
L801	1-459-123-00	COIL, DUST CORE (PAC)			
L901	1-410-521-11	INDUCTOR	100UH		
PS801	1-466-391-11	CONVERTER, DC-DC			
Q801	8-729-820-60	TRANSISTOR 2SB1124S			
Q802	8-729-820-60	TRANSISTOR 2SB1124S			
Q803	8-729-809-41	TRANSISTOR 2SD1624-S			
Q804	8-729-820-60	TRANSISTOR 2SB1124S			
Q805	8-729-820-60	TRANSISTOR 2SB1124S			
Q806	8-729-901-05	TRANSISTOR DTA124EK			
Q807	8-729-901-00	TRANSISTOR DTC124EK			
Q808	8-729-901-00	TRANSISTOR DTC124EK			
Q809	8-729-901-00	TRANSISTOR DTC124EK			
Q810	8-729-901-00	TRANSISTOR DTC124EK			
Q811	8-729-820-60	TRANSISTOR 2SB1124S			
Q812	8-729-820-60	TRANSISTOR 2SB1124S			

Ref.No.	Part No.	Description				
Q813	8-729-903-10	TRANSISTOR FMW1				
Q814	8-729-809-41	TRANSISTOR 2SD1624-S				
Q815	8-729-271-23	TRANSISTOR 2SC2712				
Q816	8-729-271-23	TRANSISTOR 2SC2712				
Q817	8-729-271-23	TRANSISTOR 2SC2712				
Q818	8-729-901-00	TRANSISTOR DTC124EK				
Q819	8-729-216-22	TRANSISTOR 2SA1162				
Q820	8-729-820-60	TRANSISTOR 2SB1124S				
Q821	8-729-901-00	TRANSISTOR DTC124EK				
Q822	8-729-901-00	TRANSISTOR DTC124EK				
Q823	8-729-901-00	TRANSISTOR DTC124EK				
Q901	8-729-901-05	TRANSISTOR DTA124EK				
Q902	8-729-901-00	TRANSISTOR DTC124EK				
R701	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R702	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R703	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R704	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R705	1-216-142-00	METAL GLAZE	4.7	5%	1/8W	
R706	1-216-142-00	METAL GLAZE	4.7	5%	1/8W	
R708	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R709	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R710	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R711	1-216-142-00	METAL GLAZE	4.7	5%	1/8W	
R713	1-216-142-00	METAL GLAZE	4.7	5%	1/8W	
R714	1-216-142-00	METAL GLAZE	4.7	5%	1/8W	
R715	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R716	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R717	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R718	1-216-174-00	METAL GLAZE	100	5%	1/8W	
R801	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R802	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R803	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R804	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R805	1-247-738-11	CARBON	82	5%	1/2W	
R806	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R807	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R808	1-215-857-11	METAL OXIDE	10	5%	1W	F
R809	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R810	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R811	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R812	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R813	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R814	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R815	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R816	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R817	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R818	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R819	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R820	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R821	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R822	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R823	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R824	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R825	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R826	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R827	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R828	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R829	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R830	1-216-222-00	METAL GLAZE	10K	5%	1/8W	

Ref.No.	Part No.	Description			
R831	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R832	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R833	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R834	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R835	1-216-142-00	METAL GLAZE	4.7	5%	1/8W
R836	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R837	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W
R839	1-247-736-11	CARBON	56	5%	1/2W
R901	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R902	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R903	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R904	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R905	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R906	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R907	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R908	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R909	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R910	1-216-174-00	METAL GLAZE	100	5%	1/8W
R911	1-216-174-00	METAL GLAZE	100	5%	1/8W
R912	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R913	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R914	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R915	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R916	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R917	1-216-198-00	METAL GLAZE	1K	5%	1/8W
R918	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R919	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R920	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R921	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R922	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R923	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R924	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R925	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R926	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R927	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R928	1-216-238-00	METAL GLAZE	47K	5%	1/8W
R929	1-216-230-00	METAL GLAZE	22K	5%	1/8W
R930	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W
R931	1-216-166-00	METAL GLAZE	47	5%	1/8W
R932	1-216-186-00	METAL GLAZE	330	5%	1/8W
R933	1-216-190-00	METAL GLAZE	470	5%	1/8W
RY701	1-515-614-11	RELAY			
VDR801	1-807-601-11	VARISTOR, CERAMIC			
X901	1-567-775-11	VIBRATOR, CERAMIC (4.19MHz)			

ACCESSORY & PACKING MATERIAL

1-574-294-11	CORD (WITH CONNECTOR)(10P/4P/2P/10P)
*3-362-610-01	INDIVIDUAL CARTON
*3-362-612-01	CUSHION (UPPER)
*3-362-613-01	CUSHION (LOWER)
*3-362-614-01	LABEL, INDIVIDUAL
*3-363-858-01	MANUAL, FITTING
*3-704-333-01	SHEET (STANDARD), PROTECTION
3-752-379-21	MANUAL, INSTRUCTION (ENGLISH,FRENCH)
7-682-274-09	SCREW +K 5X8

(MD SECTION)

Ref.No.	Part No.	Description		
920	*1-633-157-11	PC BOARD, CONNECTOR		
921	*1-633-158-11	PC BOARD, SENSOR		
922	*1-633-159-11	PC BOARD, LED		
923	*A-3261-172-A	MOUNTED PCB, RF		
924	1-629-581-11	PC BOARD, SENSOR FILEXIBLE		
925	1-629-582-11	PC BOARD, TRANSLATION FLEXIBLE		
926	⚠8-848-124-11	DEVICE, OPTICAL KSS-168ARP		
C1	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C2	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C3	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C101	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C102	1-162-965-11	CERAMIC CHIP 0.0015MF	10%	50V
C103	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C104	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C105	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C106	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C201	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C202	1-162-965-11	CERAMIC CHIP 0.0015MF	10%	50V
C203	1-162-955-11	CERAMIC CHIP 150PF	5%	50V
C204	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C205	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C206	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C301	1-135-155-21	TANTAL. CHIP 4.7MF	10%	16V
C302	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C303	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C304	1-162-961-11	CERAMIC CHIP 330PF	10%	50V
C305	1-162-961-11	CERAMIC CHIP 330PF	10%	50V
C306	1-126-599-11	ELECT 330MF	20%	6.3V
C307	1-164-346-11	CERAMIC CHIP 1MF		16V
C308	1-126-599-11	ELECT 330MF	20%	6.3V
C309	1-164-346-11	CERAMIC CHIP 1MF		16V
C321	1-164-346-11	CERAMIC CHIP 1MF		16V
C322	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C401	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C402	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C411	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C412	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C421	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C422	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C431	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C432	1-162-947-11	CERAMIC CHIP 33PF	5%	50V
C441	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C442	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C443	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C470	1-126-592-11	ELECT CHIP 4.7MF	20%	16V
C501	1-126-590-11	ELECT CHIP 22MF	20%	4V

Ref.No.	Part No.	Description		
C502	1-135-166-21	TANTAL. CHIP 47MF	20%	6.3V
C503	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C504	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C505	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C506	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C507	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C508	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C509	1-162-968-11	CERAMIC CHIP 0.0047MF	10%	50V
C510	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C511	1-162-968-11	CERAMIC CHIP 0.0047MF	10%	50V
C512	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C513	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C514	1-163-989-11	CERAMIC CHIP 0.033MF	10%	25V
C515	1-135-155-21	TANTAL. CHIP 4.7MF	10%	16V
C516	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C517	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
C518	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C519	1-162-968-11	CERAMIC CHIP 0.0047MF	10%	50V
C520	1-126-594-11	ELECT CHIP 1MF	20%	50V
C521	1-164-346-11	CERAMIC CHIP 1MF		16V
C522	1-162-970-11	CERAMIC CHIP 0.01MF	10%	25V
C523	1-126-593-11	ELECT CHIP 0.47MF	20%	50V
C524	1-162-964-11	CERAMIC CHIP 0.001MF	10%	50V
C525	1-162-941-11	CERAMIC CHIP 10PF	0.5PF	50V
C526	1-162-943-11	CERAMIC CHIP 15PF	5%	50V
C571	1-164-346-11	CERAMIC CHIP 1MF		16V
C572	1-164-346-11	CERAMIC CHIP 1MF		16V
C573	1-126-591-11	ELECT CHIP 10MF	20%	6.3V
C574	1-126-590-11	ELECT CHIP 22MF	20%	4V
C575	1-164-346-11	CERAMIC CHIP 1MF		16V
C576	1-164-346-11	CERAMIC CHIP 1MF		16V
C577	1-164-346-11	CERAMIC CHIP 1MF		16V
C578	1-126-590-11	ELECT CHIP 22MF	20%	4V
C579	1-164-346-11	CERAMIC CHIP 1MF		16V
C601	1-126-247-11	ELECT 560MF	20%	6.3V
C602	1-126-316-51	ELECT 470MF	20%	16V
C901	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C902	1-162-961-11	CERAMIC CHIP 330PF	10%	50V
CNJ1	1-566-532-11	CONNECTOR, FPC (ZIF) 16P		
CNJ2	1-566-526-11	CONNECTOR, FPC (ZIF) 10P		
CNJ3	1-568-141-11	HOUSING, CONNECTOR 5P		
CNJ4	1-568-142-11	HOUSING, CONNECTOR 13P		
CNP3	*1-566-188-11	PIN, CONNECTOR (PC BOARD) 9P		
CNP601	*1-566-012-11	PIN, CONNECTOR (PC BOARD) 15P		

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description
D1	8-719-400-18	DIODE MA152WK
D301	8-719-976-99	DIODE DTZ5.1B
D302	8-719-977-28	DIODE DTZ10B
D401	8-719-977-28	DIODE DTZ10B
D402	8-719-108-24	DIODE 1SS223
D631	8-719-404-27	DIODE LN1261C
D632	8-719-404-27	DIODE LN1261C
D633	8-719-404-27	DIODE LN1261C
D901	8-719-976-31	DIODE 1SS332
IC1	8-752-816-29	IC CXP5068H-035Q
IC301	8-759-983-79	IC PCM66P
IC302	8-759-981-99	IC RC4560M
IC401	8-759-604-56	IC M5228FP
IC402	8-759-604-56	IC M5228FP
IC403	8-759-996-45	IC BA6208F
IC501	8-752-033-14	IC CXA1081Q
IC502	8-752-037-50	IC CXA1082BQ
IC503	8-752-332-34	IC CXD1125Q
IC504	8-752-323-65	IC CXK5816M-15L
IC505	8-759-504-68	IC SM5807ES
JR601	1-216-296-00	METAL GLAZE 0 5% 1/8W
L1	1-410-204-31	INDUCTOR CHIP 10UH
L501	1-410-204-31	INDUCTOR CHIP 10UH
L502	1-410-198-51	INDUCTOR CHIP 3.3UH
M901	A-4910-183-A	MOTOR ASSY (SLED)
M902	1-541-448-41	MOTOR (SPINDLE)
M903	A-3249-213-A	GEAR (A) ASSY (LOADING)
PM901	1-454-461-11	SOLENOID, PLUNGER
Q101	8-729-920-31	TRANSISTOR DTC343TK
Q201	8-729-920-31	TRANSISTOR DTC343TK
Q301	8-729-921-11	TRANSISTOR IMB1
Q302	8-729-808-42	TRANSISTOR 2SD1624-T
Q303	8-729-920-59	TRANSISTOR IMX2
Q401	8-729-907-00	TRANSISTOR DTC114EU
Q402	8-729-808-42	TRANSISTOR 2SD1624-T
Q403	8-729-820-60	TRANSISTOR 2SB1124S
Q404	8-729-808-42	TRANSISTOR 2SD1624-T
Q405	8-729-820-60	TRANSISTOR 2SB1124S
Q406	8-729-808-42	TRANSISTOR 2SD1624-T
Q407	8-729-820-60	TRANSISTOR 2SB1124S
Q408	8-729-808-42	TRANSISTOR 2SD1624-T
Q409	8-729-820-60	TRANSISTOR 2SB1124S
Q410	8-729-808-42	TRANSISTOR 2SD1624-T

Ref.No.	Part No.	Description
Q411	8-729-820-60	TRANSISTOR 2SB1124S
Q412	8-729-808-42	TRANSISTOR 2SD1624-T
Q413	8-729-820-60	TRANSISTOR 2SB1124S
Q414	8-729-808-42	TRANSISTOR 2SD1624-T
Q415	8-729-820-60	TRANSISTOR 2SB1124S
Q416	8-729-808-42	TRANSISTOR 2SD1624-T
Q417	8-729-820-60	TRANSISTOR 2SB1124S
Q422	8-729-922-94	TRANSISTOR DTC143TU
Q425	8-729-808-42	TRANSISTOR 2SD1624-T
Q501	8-729-162-43	TRANSISTOR 2SB624-BV3
Q502	8-729-216-22	TRANSISTOR 2SA1162
Q503	8-729-920-28	TRANSISTOR FMG9
Q504	8-729-907-00	TRANSISTOR DTC114EU
Q621	8-729-402-08	TRANSISTOR PN147-LF-R
Q622	8-729-402-08	TRANSISTOR PN147-LF-R
Q623	8-729-402-08	TRANSISTOR PN147-LF-R
R3	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R4	1-216-837-11	METAL GLAZE 22K 5% 1/16W
R16	1-216-857-11	METAL GLAZE 1M 5% 1/16W
R001	1-236-436-11	NETWORK, RES 100K
R002	1-236-428-11	NETWORK, RES 22K
R003	1-236-428-11	NETWORK, RES 22K
R004	1-236-428-11	NETWORK, RES 22K
R005	1-236-428-11	NETWORK, RES 22K
R006	1-236-428-11	NETWORK, RES 22K
R007	1-236-432-11	NETWORK, RES 47K
R008	1-236-429-11	NETWORK, RES 27K
R009	1-236-424-11	NETWORK, RES 10K
R010	1-236-436-11	NETWORK, RES 100K
R101	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R102	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R103	1-216-835-11	METAL GLAZE 15K 5% 1/16W
R104	1-216-838-11	METAL GLAZE 27K 5% 1/16W
R105	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R201	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R202	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R203	1-216-835-11	METAL GLAZE 15K 5% 1/16W
R204	1-216-838-11	METAL GLAZE 27K 5% 1/16W
R205	1-216-845-11	METAL GLAZE 100K 5% 1/16W
R301	1-216-829-11	METAL GLAZE 4.7K 5% 1/16W
R302	1-216-826-11	METAL GLAZE 2.7K 5% 1/16W
R303	1-216-833-11	METAL GLAZE 10K 5% 1/16W
R321	1-216-829-11	METAL GLAZE 27K 5% 1/16W
R322	1-216-834-11	METAL GLAZE 4.7K 5% 1/16W
R323	1-216-841-11	METAL GLAZE 47K 5% 1/16W
R324	1-216-809-11	METAL GLAZE 100K 5% 1/16W

Ref.No.	Part No.	Description			
R401	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R402	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R403	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R404	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R405	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R406	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R411	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R412	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R413	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R414	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R415	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R416	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R421	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R422	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R423	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R424	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R425	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R426	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R431	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R432	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R433	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R434	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R435	1-216-834-11	METAL GLAZE	12K	5%	1/16W
R436	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R443	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R444	1-218-348-11	METAL GLAZE	110K	5%	1/16W
R445	1-218-347-11	METAL GLAZE	91K	5%	1/16W
R446	1-216-848-11	METAL GLAZE	180K	5%	1/16W
R447	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W
R451	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R452	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R454	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R453	1-216-150-00	METAL GLAZE	10	5%	1/8W
R501	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R502	1-216-150-00	METAL GLAZE	10	5%	1/8W
R503	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R504	1-218-293-11	METAL GLAZE	24K	5%	1/16W
R505	1-216-809-11	METAL GLAZE	100	5%	1/16W
R506	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R507	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R508	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R509	1-216-865-11	METAL GLAZE	3K	5%	1/16W
R512	1-216-847-11	METAL GLAZE	150K	5%	1/16W
R513	1-216-843-11	METAL GLAZE	68K	5%	1/16W
R514	1-216-850-11	METAL GLAZE	270K	5%	1/16W
R515	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R516	1-218-273-11	METAL GLAZE	510K	5%	1/16W

Ref.No.	Part No.	Description			
R517	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R518	1-216-848-11	METAL GLAZE	180K	5%	1/16W
R519	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R520	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R521	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R522	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R523	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R526	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R527	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R530	1-216-833-11	METAL GLAZE	10K	5%	1/16W
R531	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R532	1-216-150-00	METAL GLAZE	10	5%	1/8W
R631	1-216-192-00	METAL GLAZE	560	5%	1/8W
R901	1-216-833-11	METAL GLAZE	10K	5%	1/16W
RV401	1-238-663-11	RES, ADJ, CERMER 4.7K			
RV501	1-237-005-11	RES, ADJ, METAL GLAZE 22K			
RV502	1-238-206-11	RES, ADJ, METAL GLAZE 47K			
RV503	1-238-665-11	RES, ADJ, CERMET 22K			
RV504	1-238-665-11	RES, ADJ, CERMET 22K			
RV505	1-238-662-11	RES, ADJ, CERMET 2.2K			
SW621	1-571-754-11	SWITCH, PUSH (1 KEY)(SHUTTER DETECT)			
SW622	1-571-754-11	SWITCH, PUSH (1 KEY)(DISC DETECT)			
SW631	1-554-938-11	SWITCH, LEAF (LINIT)			
SW632	1-554-938-11	SWITCH, LEAF (LOCKGEAR DETECT)			
TH441	1-808-656-11	THERMISTOR			
TH442	1-808-656-11	THERMISTOR			
TH501	1-808-656-11	THERMISTOR			
X1	1-577-273-11	OSCILLATOR, CERAMIC (4.19MHz)			
X501	1-577-274-11	VIBRATOR, CRYSTAL (16.93MHz)			

9-956-056-11

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CDX-5N11W

SONY
SERVICE MANUAL

US Model

CORRECTION-1

File this correction with the service manual.

Since RF board in this model were some parts have been added or changed of thir values.

6-4. PRINTED WIRING BOARDS (MD Section)

• SEMICONDUCTOR LOCATION (MD Section)

! Ref. No. .	Location No.	! Ref. No. .	Location No.
D1	C-11	Q404	A-14
D301	H-13	Q405	A-14
D302	H-12	Q406	A-14
D401	A-11	Q407	A-15
D402	B-11	Q408	A-14
D403	A-10	Q409	B-15
D631	F-5	Q410	A-15
D632	I-5	Q411	B-16
D633	I-6	Q412	A-16
		Q413	B-16
IC1	C-11	Q414	A-15
IC301	H-13	Q415	B-15
IC302	H-12	Q416	A-16
IC401	A-11	Q417	A-15
IC402	B-11	Q418	B-11
IC403	A-10	Q419	B-11
IC631	F-5	Q420	B-10
IC632	I-5	Q423	A-11
IC633	I-6	Q424	B-11
		Q425	A-10
Q101	G-11	Q501	G-16
Q201	G-12	Q502	D-11
Q301	F-11	Q503	C-14
Q302	H-11	Q504	D-11
Q401	C-15	Q505	F-16
Q402	A-13	Q621	E-3
Q403	B-13	Q622	H-2
		Q623	H-3

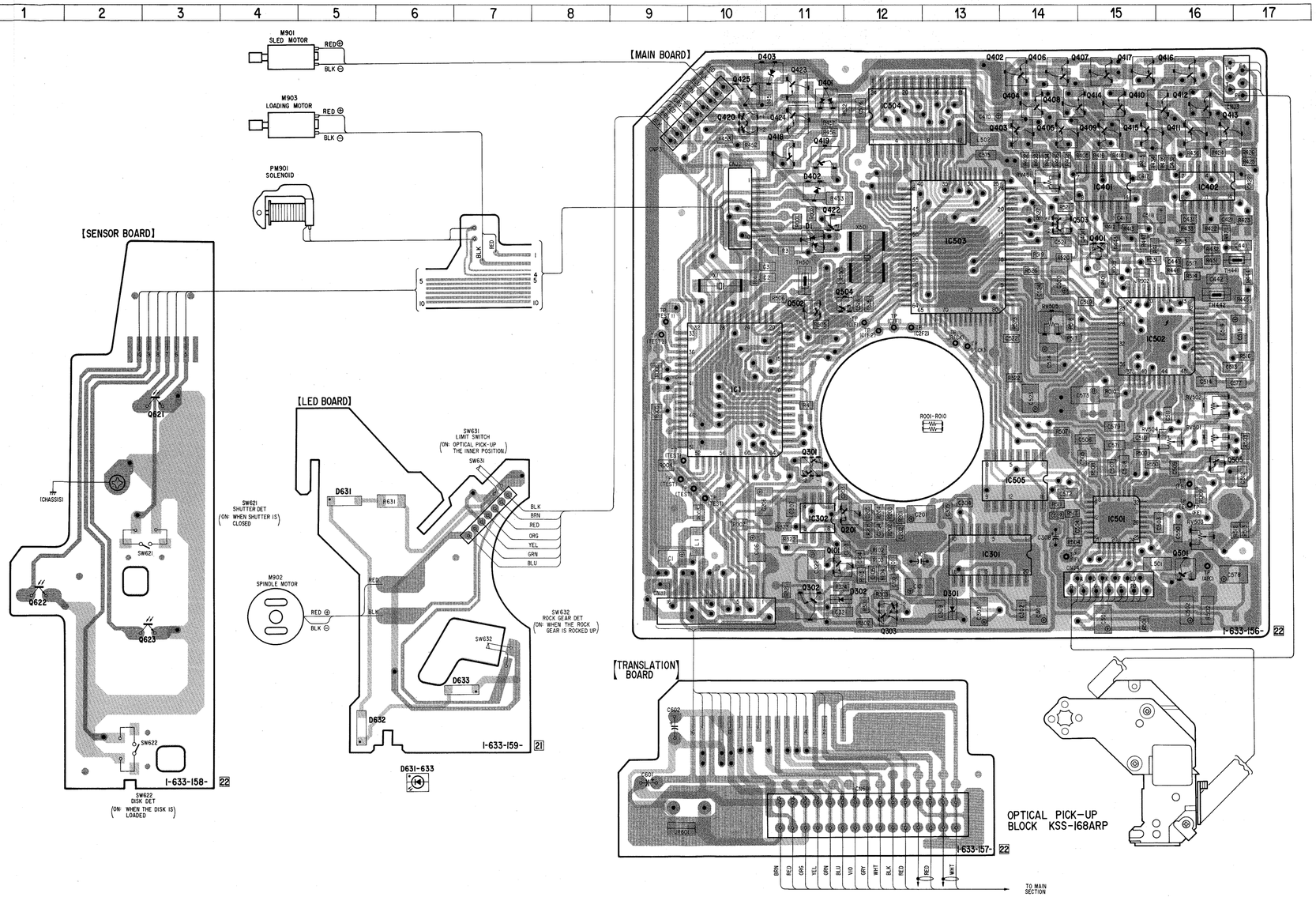
Note on printed wiring boards (MD Section)

- o——: parts extracted from the component side.
- ——: parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒▒ : Pattern on the side which is seen.
- ▒▒▒ : Pattern of the rear side.

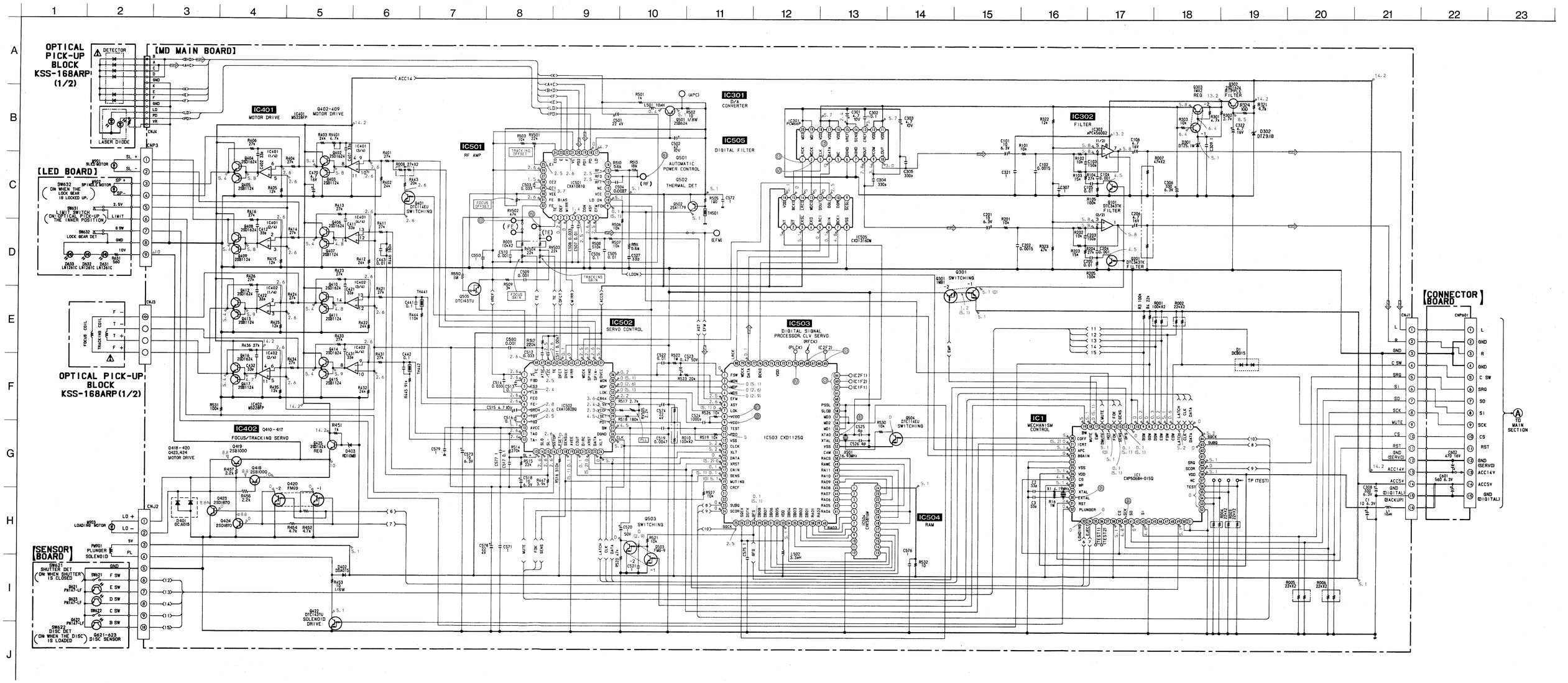
Note on schematic diagram (MD Section):

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- ——: B +line
- □: adjustment for repair.
- Power voltage is dc 14.4V and fed with regurated dc power supply from battery and accesory terminal.
- Voltages and waveforms are dc with respect to ground under no signal conditions.
  no mark: STOP
  ( ) : PLAY
- Voltages are taken with a VOM. (Input impedance 10M Ω) Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨: CD

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.



6-5. SCHEMATIC DIAGRAM (MD Section) ● Refer to page 20 for note. ● Refer to page 34 for waveforms, see the service manual.



RF

SECTION 8
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- –XX, –X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: μ, for example:
  uA...: μA..., uPA...: μPA...,
  uPB...: μPB..., uPC...: μPC...,
  uPD...: μPD...
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			
	* A-3273-172-A	RF BOARD COMPLETE **********			
	* 1-566-188-11	PIN, CONNECTOR (PC BOARD) 9P			
	1-568-141-11	HOUSING, CONNECTOR 5P			
	1-568-142-11	HOUSING, CONNECTOR 13P			
		<CAPACITOR>			
C1	1-126-591-11	ELECT CHIP	10uF	20%	6.3V
C2	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C3	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C101	1-126-591-11	ELECT CHIP	10uF	20%	6.3V
C102	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C103	1-162-955-11	CERAMIC CHIP	150PF	5%	50V
C104	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C105	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C106	1-126-592-11	ELECT CHIP	4.7uF	20%	16V
C201	1-126-591-11	ELECT CHIP	10uF	20%	6.3V
C202	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C203	1-162-955-11	CERAMIC CHIP	150PF	5%	50V
C204	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C205	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C206	1-126-592-11	ELECT CHIP	4.7uF	20%	16V
C301	1-135-155-21	TANTAL CHIP	4.7uF	10%	10V
C302	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C303	1-135-155-21	TANTAL CHIP	4.7uF	10%	10V
C304	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C305	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C306	1-126-599-11	ELECT CHIP	330uF	20%	6.3V
C307	1-164-346-11	CERAMIC CHIP	1uF		16V
C308	1-126-599-11	ELECT CHIP	330uF	20%	6.3V
C309	1-164-346-11	CERAMIC CHIP	1uF		16V
C321	1-164-346-11	CERAMIC CHIP	1uF		16V
C322	1-126-592-11	ELECT CHIP	4.7uF	20%	16V
C401	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C402	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C411	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C412	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C421	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C422	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C431	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C432	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C441	1-164-004-11	CERAMIC CHIP	0.uF	10%	25V
C442	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C443	1-152-970-11	CERAMIC CHIP	0.001uF	10%	25V
C470	1-126-592-11	ELECT CHIP	4.7uF	20%	16V
C501	1-126-590-11	ELECT CHIP	22uF	20%	4V
C502	1-135-166-21	TANTAL CHIP	47uF	10%	10V
C503	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C504	1-162-979-11	CERAMIC CHIP	0.0027uF	10%	50V
C505	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C506	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C507	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C508	1-163-989-11	CERAMIC CHIP	0.003uF	10%	25V
C509	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C510	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C511	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C512	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C513	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C514	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C515	1-135-155-21	TANTAL CHIP	4.7uF	10%	10V
C516	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C517	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C518	1-126-591-11	ELECT CHIP	10uF	20%	6.3V
C519	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C520	1-126-594-11	ELECT CHIP	1uF	20%	50V
C521	1-164-346-11	CERAMIC CHIP	1uF		16V
C522	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C523	1-126-593-11	ELECT CHIP	0.47uF	20%	50V
C524	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C525	1-162-935-11	CERAMIC CHIP	4PF 0.25PF		50V
C526	1-162-935-11	CERAMIC CHIP	4PF 0.25PF		50V
C527	1-162-947-11	CERAMIC CHIP	33PF	5%	50V
C571	1-164-346-11	CERAMIC CHIP	1uF		16V
C572	1-164-346-11	CERAMIC CHIP	1uF		16V
C573	1-126-591-11	ELECT CHIP	10uF	20%	6.3V

RF

Ref.No.	Part No.	Description			
C574	1-126-590-11	ELECT CHIP	22uF	20%	4V
C575	1-164-346-11	CERAMIC CHIP	1uF		16V
C576	1-164-346-11	CERAMIC CHIP	1uF		16V
C577	1-164-346-11	CERAMIC CHIP	1uF		16V
C578	1-126-590-11	ELECT CHIP	22uF	20%	4V
C579	1-164-346-11	CERAMIC CHIP	1uF		16V
C580	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
	<CONNECTOR>				
CNJ1	1-566-532-11	CONNECTOR, FPC (ZIF) 16P			
CNJ2	1-566-526-11	CONNECTOR, FPC (ZIF) 10P			
	<DIODE>				
D1	8-719-400-18	DIODE MA152WK			
D301	8-719-976-99	DIODE DTZ5.1B			
D302	8-719-977-24	DIODE DTZ9.1B			
D401	8-719-104-34	DIODE 1S2836			
D402	8-719-108-24	DIODE 1SS223			
D403	8-719-106-54	DIODE RD10M-B3			
	<IC>				
IC1	8-752-816-29	IC CXP5068H-035Q			
IC301	8-759-983-79	IC PCM66P			
IC302	8-759-981-99	IC RC4560M			
IC401	8-759-604-56	IC M5228FP			
IC402	8-759-604-56	IC M5228FP			
IC501	8-752-033-14	IC CXA10810			
IC502	8-752-037-50	IC CXA1082BQ			
IC503	8-752-331-34	IC CXD1125Q			
IC504	8-752-323-65	IC CXK5816M-15L			
IC505	8-759-504-68	IC SM5807ES			
	<JAMPER RESISTOR>				
JR902	1-216-864-11	METAL GLAZE	0		
	<COIL>				
L1	1-410-204-31	INDUCTOR CHIP	10uH		
L501	1-410-204-31	INDUCTOR	10uH		
L502	1-410-198-51	INDUCTOR	3.3uH		
	<TRANSISTOR>				
Q101	8-729-920-31	TRANSISTOR	DTC343TK		
Q201	8-729-920-31	TRANSISTOR	DTC343TK		
Q301	8-729-921-11	TRANSISTOR	IMB1		
Q302	8-729-808-46	TRANSISTOR	2SD1624-T		
Q303	8-729-920-59	TRANSISTOR	IMX2		
Q401	8-729-907-00	TRANSISTOR	DTC114EU		
Q402	8-729-808-46	TRANSISTOR	2SD1624-T		
Q403	8-729-820-60	TRANSISTOR	2SB1124S		
Q404	8-729-808-46	TRANSISTOR	2SD1624-T		
Q405	8-729-820-60	TRANSISTOR	2SB1124S		
Q406	8-729-808-46	TRANSISTOR	2SD1624-T		
Q407	8-729-820-60	TRANSISTOR	2SB1124S		
Q408	8-729-808-46	TRANSISTOR	2SD1624-T		
Q409	8-729-820-60	TRANSISTOR	2SB1124S		
Q410	8-729-808-46	TRANSISTOR	2SD1624-T		

Ref.No.	Part No.	Description			
Q411	8-729-820-60	TRANSISTOR	2SB1124S		
Q412	8-729-808-46	TRANSISTOR	2SD1624-T		
Q413	8-729-820-60	TRANSISTOR	2SB1124S		
Q414	8-729-808-46	TRANSISTOR	2SD1624-T		
Q415	8-729-820-60	TRANSISTOR	2SB1124S		
Q416	8-729-808-46	TRANSISTOR	2SD1624-T		
Q417	8-729-820-60	TRANSISTOR	2SB1124S		
Q418	8-729-301-98	TRANSISTOR	2SB1000AL		
Q419	8-729-301-98	TRANSISTOR	2SB1000AL		
Q420	8-729-920-28	TRANSISTOR	FMG9		
Q422	8-729-922-94	TRANSISTOR	DTC143TU		
Q423	8-729-320-59	TRANSISTOR	2SD1870		
Q424	8-729-320-59	TRANSISTOR	2SD1870		
Q425	8-729-808-46	TRANSISTOR	2SD1624-T		
Q501	8-729-141-48	TRANSISTOR	2SB624-BV3		
Q502	8-729-216-22	TRANSISTOR	2SA1162		
Q503	8-729-920-28	TRANSISTOR	FMG9		
Q504	8-729-907-00	TRANSISTOR	DTC114EU		
Q505	8-729-922-94	TRANSISTOR	DTC143TU		
	<RESISTOR>				
R3	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R4	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R16	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R001	1-236-436-11	NETWORK, RES	100K		
R002	1-236-428-11	NETWORK, RES	22K		
R003	1-236-428-11	NETWORK, RES	22K		
R004	1-236-428-11	NETWORK, RES	22K		
R005	1-236-428-11	NETWORK, RES	22K		
R006	1-236-428-11	NETWORK, RES	22K		
R007	1-236-432-11	NETWORK, RES	47K		
R008	1-236-429-11	NETWORK, RES	27K		
R009	1-236-424-11	NETWORK, RES	10K		
R010	1-236-436-11	NETWORK, RES	100K		
R101	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R102	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R103	1-218-320-11	METAL GLAZE	15K	1%	1/16W
R104	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R105	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R201	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R202	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R203	1-218-320-11	METAL GLAZE	15K	1%	1/16W
R204	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R205	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R301	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R302	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R303	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R321	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R322	1-218-304-11	METAL GLAZE	12K	1%	1/16W
R323	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R324	1-216-809-11	METAL GLAZE	100K	5%	1/16W
R401	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R402	1-218-293-11	METAL GLAZE	24K	1%	1/16W
R403	1-218-293-11	METAL GLAZE	24K	1%	1/16W
R404	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R405	1-218-304-11	METAL GLAZE	12K	1%	1/16W
R406	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R411	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R412	1-218-293-11	METAL GLAZE	24K	1%	1/16W

RF

Ref. No.	Part No.	Description			
R413	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R414	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R415	1-218-304-11	METAL GLAZE	12K	1%	1/16W
R416	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R421	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R422	1-218-293-11	METAL GLAZE	24K	1%	1/16W
R423	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R424	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R425	1-218-304-11	METAL GLAZE	12K	1%	1/16W
R426	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R431	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R432	1-218-293-11	METAL GLAZE	24K	1%	1/16W
R433	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R434	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R435	1-218-304-11	METAL GLAZE	12K	1%	1/16W
R436	1-216-838-11	METAL GLAZE	27K	5%	1/16W
R443	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R444	1-218-348-11	METAL GLAZE	110K	5%	1/16W
R445	1-218-347-11	METAL GLAZE	91K	5%	1/16W
R446	1-216-848-11	METAL GLAZE	180K	5%	1/16W
R447	1-216-828-11	METAL GLAZE	3.9K	5%	1/16W
R451	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R452	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R453	1-216-150-00	METAL GLAZE	10	5%	1/8W
R454	1-216-829-11	METAL GLAZE	4.7K	5%	1/16W
R457	1-216-825-11	METAL GLAZE	2.2K	5%	1/16W
R501	1-216-821-11	METAL GLAZE	1K	5%	1/16W
R502	1-216-150-00	METAL GLAZE	10	5%	1/8W
R503	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R505	1-216-809-11	METAL GLAZE	100	5%	1/16W
R506	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R507	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R508	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R509	1-216-865-11	METAL GLAZE	3K	5%	1/16W
R510	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W
R511	1-216-830-11	METAL GLAZE	5.6K	5%	1/16W
R512	1-216-849-11	METAL GLAZE	220K	5%	1/16W
R513	1-216-836-11	METAL GLAZE	18K	5%	1/16W
R514	1-216-850-11	METAL GLAZE	270K	5%	1/16W
R515	1-216-837-11	METAL GLAZE	22K	5%	1/16W
R516	1-218-273-11	METAL GLAZE	510K	5%	1/16W
R517	1-216-826-11	METAL GLAZE	2.7K	5%	1/16W
R518	1-216-848-11	METAL GLAZE	180K	5%	1/16W
R519	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R520	1-216-841-11	METAL GLAZE	47K	5%	1/16W
R521	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R522	1-216-857-11	METAL GLAZE	1M	5%	1/16W
R523	1-218-292-11	METAL GLAZE	20K	5%	1/16W
R526	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R527	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R530	1-218-303-11	METAL GLAZE	10K	1%	1/16W
R531	1-216-845-11	METAL GLAZE	100K	5%	1/16W
R532	1-216-150-00	METAL GLAZE	10	5%	1/8W
R550	1-216-857-11	METAL GLAZE	1M	5%	1/16W

Ref. No.	Part No.	Description	
	<VARIABLE RESISTOR>		
RV401	1-238-663-11	RES, ADJ, CERMET	4.7K
RV501	1-237-005-11	RES, ADJ, METAL	22K
RV502	1-238-206 11	RES, ADJ, METAL	47K
RV503	1-238-665-11	RES, ADJ, CERMET	22K
RV504	1-238-665-11	RES, ADJ, CERMET	22K
RV505	1-238-662-11	RES, ADJ, CERMET	2.2K
	<THERMISTOR>		
TH441	1-808-656-11	THERMISTOR	10K
TH442	1-808-656-11	THERMISTOR	10K
TH501	1-808-656-11	THERMISTOR	
	<CRYSTAL>		
X1	1-577-273-11	OSCILLATOR, CERAMIC (4.19MHz)	
X501	1-577-274-11	VIBRATOR, CRYSTAL (16.93MHz)	

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